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BALL LILIES  
See Inside Front

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SEEDS AND BULBS  
JIFFY-POTS

SUMMER • 1957



# BALL CROFTS

CROFTS ARE THE STANDARD OF THE EASTER LILY POT PLANT MARKET—AND **BALL CROFTS** ARE THE STANDARD OF THE CROFT MARKET.

## 3 REASONS WHY YOU SHOULD BUY BALL CROFTS

1. **BALL CROFTS** are contract grown (we don't "shop" for bulbs) by "oldtimers" in the business. They keep in close touch with the latest scientific research in bulb production. They **KNOW** Crofts.
2. We personally inspect Ball Croft fields several times during the growing season. We are "on the spot" during the important digging and packing season. We know Ball Crofts are well grown, properly dug, graded and packed.
3. We test the forcing quality of Ball Crofts every year in our own greenhouses. We **KNOW** Ball Crofts are superior for pot plant forcing.

When you buy Ball Crofts, **you'll** know they're good, too!

**BALL CROFTS** are dug, graded and packed in late September. For our customers who don't precool their bulbs or who do their own precooling, we will be happy to ship direct from our fields.

**BALL CROFTS** are precooled under proper temperature and moisture conditions and shipped at the proper planting time for Easter forcing. Or, if you prefer, we will ship on any date you specify. Bulbs are shipped f.o.b. our growing fields in Oregon or from the following cities: Omaha; Dallas; Atlanta; Toledo; Springfield (Mass.); West Chicago; Elmira; Milwaukee; Philadelphia; Minneapolis and Indianapolis.

### BALL CROFTS ARE PACKED AS FOLLOWS:

- Size 7/8, 250 bulbs per case
- Size 8/9, 200 bulbs per case
- Size 9/10, 150 bulbs per case
- Size 10/up, 100 bulbs per case

If you specify, we can supply double-nosed bulbs by the case.

Prices established at digging time. Write for quantity prices.

## Have You Tried Ball Ace Lilies?

Many growers have—and they're coming back for more! Ace Lilies are being grown in increasing quantities as Easter pot plants. They produce a smaller plant than does the Croft, also Ace foliage "points up", which means less bench room. Bud count is generally higher than that of a comparable sized Croft bulb. Flowers are smaller. The important point to keep in mind in forcing Ace is that they should have about two weeks more forcing time than Crofts. Otherwise Croft forcing procedure can be followed.

Ball Ace bulbs are produced by Oregon specialist growers under Ball contracts. We closely inspect these crops several times during each growing season, and personally supervise digging, grading, and packing.

Demand for **Ball Ace** Lilies has far exceeded our contracted supply for the past several years. Since we do not "shop" for bulbs late in the season, placing your order with us **EARLY** will help us serve you better.

**Ball Ace** Lilies are dug, graded, and packed in late September. We will gladly ship your order f.o.b. our Oregon fields or from the following cold storage points: Omaha; Dallas; Atlanta; Toledo; Springfield (Mass.); West Chicago; Elmira; Milwaukee; Philadelphia; Minneapolis and Indianapolis.

Unless you specify a delivery date, we will ship at the proper planting time for Easter forcing.

**BALL ACE** are packed as follows:

- Size 7/8, 250 bulbs per case
- Size 8/9, 200 bulbs per case
- Size 9/10, 150 bulbs per case

Prices established at digging time. Write for quantity prices.

# Lilies for Cut Flowers

## ERABU

(Japanese-grown)

The most widely grown white trumpet Lily for midwinter and spring flowering. Planted in October, Erabus will flower by the end of January, forced at 65°. Fifty-five degree forcing will flower them in late February and March. Available from the end of September on.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
6/8	400	\$14.00	\$35.00
7/9	300	17.00	41.00
7/9	150 (Baby Case)	26.00	20.00
8/10	225	21.00	39.00
8/10	100 (Baby Case)	21.00	16.00
9/10	200	25.00	39.00
9/10	100 (Baby Case)	25.00	19.00
10/11	150	30.00	38.00
10/11	100 (Baby Case)	30.00	24.00

Orders for shipment from Seattle must be received prior to August 1.

## ESTATE

A large-flowered, long-stemmed white Lily for spring flowering. Plant in December for April and May flowering. Our bulbs are Northwest-grown. Shipped f.o.b. Dallas, Omaha, Minneapolis, West Chicago, Milwaukee, Indianapolis, Toledo, Philadelphia, Elmira, Atlanta, and Springfield, Mass.

The following prices were in effect in the fall of 1956 and are subject to change for fall, 1957 shipment. Write for prices for shipments f.o.b. Oregon fields.

Size	Bulbs Per Case	Per 100	Per Case
7/8	250	\$25.00	\$55.00
8/9	200	40.00	72.50
9/10	150	50.00	65.00

## RUBRUM (Speciosum)

(Japanese-grown)

The most commonly grown colored cut-flower Lily. Reflex-shaped flowers, carmine-pink, with crimson spots. For greenhouse flowering plant bulbs in midwinter or early spring for late spring and summer flowering. Space bulbs 6 x 6 inches and force at 55 to 60°. Planted outdoors, Rubrums flower normally in August. An excellent garden Lily—a good item for counter bulb sales.

Bulbs available from January on.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
7/9	250	\$20.00	\$32.00
8/9	200	25.00	41.00
9/10	140	33.00	40.00
9/11	125	37.00	40.00
10/11	100	42.50	40.00

Orders for shipment from Seattle must be received prior to November 1.

## AURATUM

(Japanese-grown)

The popular Gold-Band Lily—bowl-shaped. Excellent for greenhouse forcing—will flower in June from a midwinter planting. Also a very satisfactory garden Lily—a good counter sale bulb item. Bulbs available from January to March.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
7/9	250	\$17.50	\$35.00
8/9	200	20.00	35.00
9/10	140	28.00	35.00
10/11	100	37.50	35.00

Orders for shipment from Seattle must be received prior to November 1.

## PLATYPHYLLUM

(Japanese-grown)

A variety of Auratum with less spotting. Bulbs available from January to April.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
7/9	250	\$18.00	\$38.00
8/9	200	22.00	38.00
9/10	140	30.00	38.00

Orders for shipment from Seattle must be received prior to November 1.

## ALBUM

(Japanese-grown)

A pure white Speciosum—reflexed. Handled the same as Rubrums. Shipped from January to July.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
7/9	250	\$40.00	\$82.50
8/9	200	45.00	82.50
9/10	140	65.00	82.50

Orders for shipment from Seattle must be received prior to November 1.

## GIGANTEUM

(Japanese-grown)

A standard white trumpet cut-flower Lily. Bulbs available from December through July. Forced at 60°, Giganteums will flower in 100 days during midwinter, 85 days during spring, and 75 days during mid-summer. Giganteums are the recommended Lily for summer flowering.

Size	Bulbs per Case	F.O.B. Omaha, Chicago, Toledo or Philadelphia Per 100	F.O.B. Seattle Docks Per Case
7/9	300	\$18.00	\$45.00
8/10	225	26.00	48.00

Orders for shipment from Seattle must be received prior to November 1.

Orders for Less Than a Case of Any One Size F.O.B. West Chicago

Orders Accepted Subject to Crop, Prices Subject to Change



# Lilies for Cut Flowers, Continued

## GEORGIA LILY

Although some growers use the Georgia Lily for Easter pot plants, most Georgias are grown for the earliest cut-flower crop. Properly precooled bulbs planted in mid-September will flower in early January. Georgia Lilies should be exposed to full sun and given ample water. Sixty degrees is the optimum forcing temperature.

Our Georgia Lily bulbs are available from September 15 on and are shipped f.o.b. Atlanta or West Chicago.

Packed as follows:

**Size 6/7**, 300 bulbs per case.

**Size 7/8**, 250 bulbs per case.

**Size 8/9**, 200 bulbs per case.

Prices established at digging time.

## CANDIDUM

(French-grown)

The popular white Madonna Lily. Bulbs available in August and September. Shipped f.o.b. West Chicago or New York (full cases only and orders must be received before July 1st). Write for prices.

**22/24 cm** (8/9) packed 300 bulbs per case.

**24/26 cm** (9/10) packed 250 bulbs per case.

**26/28 cm** (10/11) packed 180 bulbs per case.

See page 5 for our resale collection of garden Lily bulbs.



House of Ball Crofts at Panzer's in Portland, Oregon, two weeks before Easter. "Top quality—heavy bud count—right on the nose. Every pot was sold," according to Mr. Panzer.

## FORCING EASTER LILIES

Just as soon as Lily bulbs are packed in the growing fields, they are loaded in refrigerated freight cars or trucks for shipment to growers who want bulbs not precooled, or to cold-storage warehouses for precooling. Precooling has the effect of bringing the bulbs into flower in less time than if they were not precooled and seems to bring them into flower more uniformly. Some growers (chiefly on the West Coast) have their bulbs delivered direct from the field without precooling. They accomplish the precooling effect by potting immediately upon receipt and placing the pots in a straw covered cold frame or other location where temperatures are comparatively low—50° or less. This early potting method has the advantage of giving the bulb more time to make an ample root system before top growth starts, and usually results in a higher bud count.

Bulbs should be potted at least 2 inches below soil level so as to give the bulb an opportunity to make stem roots directly above the bulb. Soil should be sterilized and very loose and well drained—a mixture of 1/3 by volume of Canadian peat, 1/3 fine sand, and 1/3 greenhouse soil will do nicely. Soil should be slightly acid with a pH test of 6.5 or 7.0.

Time of potting Crofts centers around the basic rule that the bulb requires approximately 120 days from potting to flowering. However, recent experimental work indicates that at least 2 weeks added to this time, combined with cool temperatures at first, encourages a better root system and a higher bud count. Pot bulbs 130 days before Easter and carry 50° for 25 days. This produces a heavy root system before top growth really starts. Begin forcing by moving to 60°, 105 days before Easter.

Watering should be complete and thorough at the time of potting. Thereafter they should be kept a little on the dry side until active roots are formed.

When 60° forcing starts, move plants into full sunlight. Start regular watering and feeding. A typical feeding routine involves watering the plants every two weeks with a solution of 1 lb. calcium nitrate to 40 gals. of water. This is an alkaline fertilizer and should help to keep the pH of the soil up. If the pH gets much over 7.0 switch to ammonium sulphate at the same rate.

About 80 days before Easter begin sorting out plants according to their state of advancement. The slower plants should be moved to a warmer house—65° or 70°—and those developing faster than normal should be put into a cooler house—55°. At this stage spacing should begin. Plants should be spaced so their leaves don't much more than touch one another.

Fifty days before Easter, buds should be visible in the growing tip. Sixteen days before Easter the largest bud on a plant should begin to point down and should be 2 or 3 inches long. Feeding should be continued right up until flowering time. The last two or three weeks are most critical in timing an Easter crop. Weather conditions at this period can make a big difference. Manipulating temperatures should take care of unforeseen irregularities.

**Height of Plants.** A standard lot of true Croft bulbs can be finished very short or very tall, depending on the forcing procedure. Some factors contributing to short plants are:

1. Ample spacing on the bench. Crowded plants tend to stretch.
2. Ample light from clean glass will keep Crofts short.
3. A light, well-drained soil mixture is necessary for short plants.
4. Proper and ample feeding is important. A starved plant will stretch.
5. Early potting tends to finish shorter plants. If Crofts are forced above 60° they will be taller than necessary.

**Insect Control.** Aphis are the chief problem. Parathion, Malathion or Lindane are recommended.

**Leaf Scorch** is a problem not fully understood at this writing. Research work tends to point to a pH, lime and phosphate relationship. If the forcer will avoid phosphate fertilizers, control the pH of his soil between 6.5 and 7.0 and keep his nitrogen feeding program going as recommended, he is doing about all that can be done.

**Root-rot Trouble.** At this writing not too much is known concerning specific measures that will control root-rot. However, there are two precautions the forcer can take to keep the trouble at a minimum:

1. Use sterilized, loose soil.
2. Don't over-water. Croft root-rot is caused by one or more of the fungus organisms. The above precautions will help to keep their development to a minimum.

**Ace Lilies** are being grown in increasing quantities by pot plant forcers. They produce a somewhat smaller plant and foliage points up more which means less bench room. Bud count is generally higher than from the same sized Croft bulb. Flowers are slightly smaller. The important point to keep in mind in forcing Ace Lilies is that they should be potted about 2 weeks earlier than Crofts and this 2 weeks added to their forcing time. Otherwise Croft forcing procedure can be followed.



# BULBS FOR RETAIL SALES

LET US HELP YOU DO A BETTER SELLING JOB!

MILLIONS of bulbs are sold to home gardeners every fall and spring. If you aren't getting your share of this business, it's because you aren't trying! There's **PROFIT AND QUICK TURNOVER** in bulbs for you. Let us help you. Our resale collections are designed to help you in three ways:

**1. TOP QUALITY BULBS.** We do not believe in nor do we handle inferior or second-rate bulbs. All of our resale bulbs are of the same quality as those you buy for your own planting. **TELL YOUR CUSTOMERS THIS!**

**2.** Our collections are filled with varieties that are best for outdoor, home gardens—the colors your customers want and the “big-name” varieties they know about and ask for. **YOUR CUSTOMERS WILL KNOW THIS** when they see your Ball display boxes.

**3.** Our resale bulbs are packed either in individual boxes or in bulk. In either event the shipping containers are designed as display cartons. All you have to do is open the box, set it up in a “high-traffic” spot in your store and you're in business. Color pictures are included in most of our collections to show your customers what they're buying. **YOUR CUSTOMERS WILL RESPOND TO THESE SELLING AIDS BY BUYING!**

A demonstration garden planting will help your resale bulb sales. A Tulip and Daffodil planting for spring, followed by Garden Lilies and Glads, will put your customers in the spirit of buying. Tuberous-rooted Begonias flowering in pots will attract enthusiastic attention. Be sure to label varieties so your customers will know what to buy.



These colorful packages of popular bulbs will sell readily.

## Each Case Contains:

- 5 boxes of white Tulips, 12 bulbs per box.
- 5 boxes of yellow Tulips, 12 bulbs per box.
- 5 boxes of pink Tulips, 12 bulbs per box.
- 5 boxes of lavender Tulips, 12 bulbs per box.
- 10 boxes of red Tulips, 12 bulbs per box.
- 5 boxes of mixed Tulips, 12 bulbs per box.
- 12 boxes of mixed Hyacinths, 6 bulbs per box.
- 5 boxes of mixed Daffodils, 6 bulbs per box.
- 8 boxes of mixed Crocus, 24 bulbs per box.

**Ball Packaged Bulb Collection** (60 boxes) for **\$36.00.**

Early September delivery. F.O.B. West Chicago or East Coast if orders are received by July 15.

## PACKAGED - - - OR - - - IN BULK

Bulbs packed in boxes with colored pictures and planting direction on each box. Packaged bulbs are the easiest way for you to sell bulbs—and the easiest for your customers, too. No wrapping or bagging necessary—no chance of getting bulbs mixed. Sold by the case only.

### Bulb sizes are:

- Tulips, size 11/12.
- Hyacinths, size 15/16.
- Daffodils, size DN No. 3.
- Crocus, size 7/8.

If you prefer to sell bulbs in bulk our **Holland Bulb Collection** is a real bargain! 1175 bulbs packed in paper bags with a colored picture of each variety and a large banner poster for window display. All named varieties and first-quality bulbs.

### Each Ball Holland Bulb Collection contains:

#### TULIPS: (11/12 size).

- 100 **Edith Eddy.** Carmine-red, edged white.
- 100 **Bartigon.** Cochineal-red.
- 100 **Philip Snowden.** Deep rose.
- 100 **Wm. Copeland.** Lavender.
- 100 **Carrara.** Pure white.
- 100 **Golden Harvest.** Lemon-yellow.
- 100 **Her Grace.** Rose edged white.
- 100 **All Bright.** Bright red.
- 50 **Blue Parrot.** Dark lavender.
- 50 **Fantasy.** Deep salmon blotched green.
- 100 **Red Emperor.** The famous early, large fiery scarlet.

#### HYACINTHS: (Size 15/16).

- 25 each, **Blue, Pink and White.**

#### DAFFODILS: (Size DN No. 2).

- 100 **King Alfred.**

\$51.00

**Ball Holland Bulb Collection** (1175 bulbs) for **\$61.00.**

Should any varieties be sold out when your order is received, we will substitute with equally good or better named varieties.

Shipped f.o.b. West Chicago or East Coast ports if your order is received by July 15.



Posters and colored pictures of each variety help create sales.



KING ALFRED DAFFODIL



FIELD OF TULIPS



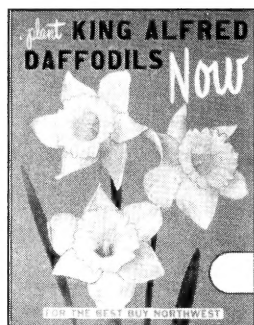
HYACINTHS

There's profit and quick turnover for you in bulbs for counter sales.

# BULBS FOR RETAIL SALES



Use these colored posters and watch your sales and profits grow!



## DAFFODILS

(American Grown)

Our Daffodil bulbs are display-packed. Just raise the lid, put up the display banner and you're in business! Bulbs are of regular forcing quality—there are none better at any price. Large colored display banner included in each case.

**BALL DAFFODIL COLLECTION No. 1.** 250 King Alfred DN-1 bulbs including display case and colored banner. F.O.B. West Coast, **\$19.00**. F.O.B. eastern points (see footnote (1) for cities), **\$22.00**. Available early September.

**BALL DAFFODIL COLLECTION No. 2.** 500 King Alfred DN-2 bulbs including display case and colored banner. F.O.B. West Coast, **\$25.00**. F.O.B. eastern points (see footnote (1) for cities), **\$30.00**. Available early September.

**BALL DAFFODIL COLLECTION No. 3.** 250 DN-2 bulbs of mixed Daffodils—all types and colors. Display case and banner included. F.O.B. West Coast, **\$15.00**. F.O.B. eastern points (see footnote (1) for cities), **\$18.00**. Available early September.

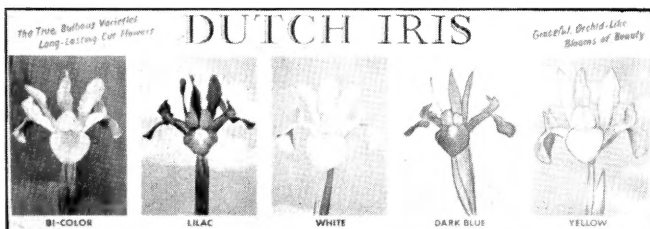
See page 10 for other American and Holland grown Daffodils.

## IRIS

(American Grown)

Consists of Dutch Iris bulbs in the popular garden colors. Packed in display cases with colored banner in each pack. All 7/8 sized bulbs, 200 bulbs each of the following colors: Bicolor, Lilac, White, Dark Blue and Yellow. 1,000 bulbs, f.o.b. West Coast, **\$28.00**. F.O.B. eastern points (see footnote (1) for cities), **\$30.00**. Available early September.

See pages 6 and 7 for other American and Holland grown Iris.



A colored poster will be enclosed with each collection.

(1) Ball Daffodil and Iris Collections shipped f.o.b. the following cities: Denver; Omaha; Kansas City, Kansas; Dallas; Minneapolis; Milwaukee; West Chicago; St. Louis; Atlanta; Jersey City; Detroit; Indianapolis; Cincinnati; Pittsburgh; Elmira; and Springfield, Mass.

## PEONIES

We think you'll be pleasantly surprised with sales from this collection if you put it where your retail customers can see it. An attractive colored display poster is included with each collection. Our **Peony Collection** contains 25 good sized 3- to 5-eye divisions each of the following varieties:

**Baroness Schroeder.** A late white.

**Felix Crousse.** A midseason brilliant red.

**La Lorraine.** A midseason creamy white.

**Mons. Jules Elie.** The standard early deep pink.

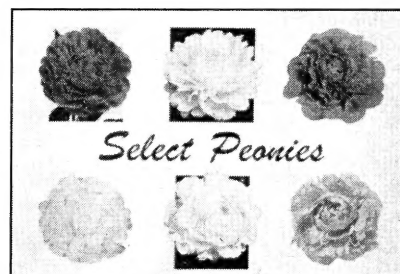
**Richard Carvel.** An early brilliant red.

**Sarah Bernhardt.** The standard late apple-blossom-pink.

**Ball Peony Collection** of 150 divisions, **\$80.00**.

(\$90.00 value if purchased separately)

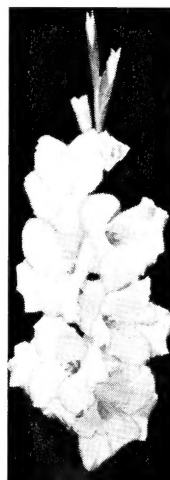
Available Sept.-Oct.  
F.O.B. Illinois.



Peony Poster

## GLADIOLUS

Every back-yard gardener knows Glads and should buy bulbs. Are you selling him? Ball Gladiolus Collections consist of proven varieties and bulb sizes that will give your customer a good crop of flowers the first year. Bulbs are of the same quality and grade you buy for your own growing. American-grown. Colored pictures of each variety supplied with each collection.



Gladiolus Posters

**BALL GLADIOLUS COLLECTION No. 1.** Contains **No. 1 size bulbs** (1½ in. up), 250 each of the following varieties:

**Ethel Cave Cole.** Fine pink.

**Margaret Fulton.** Salmon-pink.

**Valeria.** Light scarlet.

**Elizabeth the Queen.** Ruffled lavender.

**Florence Nightingale.** Tall white.

**Hopman's Glory.** Tall yellow.

**1500 No. 1 bulbs for \$37.50.** F.O.B. West Chicago. Available January on.

**BALL GLADIOLUS COLLECTION No. 2.** Contains **No. 2 size bulbs** (1¼ to 1½ in.), 250 each of the following varieties:

**Burma.** Deep rose.

**Ethel Cave Cole.** Fine pink.

**Rosa Van Lima.** Rose-pink.

**Margaret Fulton.** Salmon-pink.

**Valeria.** Light scarlet.

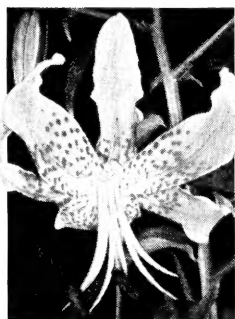
**Elizabeth the Queen.** Ruffled lavender

**Snow Princess.** Tall white.

**Hopman's Glory.** Tall yellow.

**2000 No. 2 bulbs for \$39.00.** F.O.B. West Chicago. Available January on.

# BULBS FOR RETAIL SALES



Colored Posters included with each collection.

## GARDEN LILIES

Increasing numbers of back-yard gardeners are planting Garden Lilies. They are becoming variety conscious. Are you selling them bulbs? Our Ball Lily Collections are designed to sharpen their interest and help you sell them.

**BALL LILY COLLECTION No. 1** includes the "old stand-by" varieties. Colored pictures of each variety in each case. Bulbs packed in peat moss. Contains 40 bulbs each of 7/8 Croft; the pure white trumpet Lily; 7/8 Rubrum, a reflex carmine-pink; 7/9 Auratum, the bowl-shaped flower, white spotted crimson with yellow stripes; and 6/8 Album, a reflex white.

Case of 160 bulbs, **\$42.00**. Shipped f.o.b. West Chicago, January to March.

**BALL LILY COLLECTION No. 2** also includes standard garden Lilies. Holland-grown, shipped f.o.b. New York and therefore of most interest to our eastern customers. Colored pictures of each variety in each case. Cases are designed as counter selling containers. Open case and use inside of cover for display of colored pictures. Wood partitions separate varieties. Contains 50 8/9 bulbs each of the following varieties:

**Improved Regale    Tigrinum Splendens    Orange Triumph**  
**Henryi    Regale Album**

Case of 250 bulbs, **\$41.00**. Shipped f.o.b. New York from November 1st on.

**BALL LILY COLLECTION No. 3** includes the newer American varieties that are finding wide acceptance among American gardeners. Bulbs are packed in peat moss and polyethylene bags, each variety in a separate bag. Attractive colored banner showing individual pictures with cultural directions included. Open the box, display the banner and you're in business!

Contains 25 bulbs each of the following varieties (American-grown):

**Enchantment, 5/6    Mid-Century Hybrids, 5/6**  
**Fiesta, 5/6    Olympic Hybrids, 6/7**  
**Golden Chalice Hybrids, 5/6    Valencia, 5/6**

Case of 150 bulbs, f.o.b. Oregon, **\$30.00**; f.o.b. West Chicago, **\$36.00**. Available October on.

**BALL LILY COLLECTION No. 4** consists of 36 color-printed cartons containing 3 bulbs each (size 5/7) of the famous Bellingham Hybrids. Bulbs are packed with a liberal supply of peat moss in a polyethylene bag and the bag then fits in the colored carton. A most attractive pack for "impulse-buying" near your cash register.

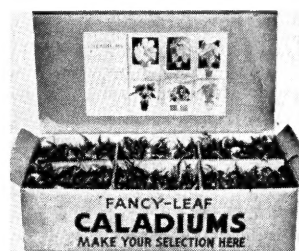
36 cartons for **\$27.00** f.o.b. Oregon; or **\$33.00** f.o.b. West Chicago. Delivery October on.

**BALL LILY COLLECTION No. 5** is identical to the above except the bulbs are of the famous Olympic Hybrid strain and are 6/7 in.

36 cartons for **\$21.60** f.o.b. Oregon; or **\$27.50** f.o.b. West Chicago. Delivery October on.

## CALADIUMS

Our southern customers know that Caladiums are a standard outdoor bedding plant. Northern customers are selling more and more Caladiums to their more discriminating customers. A display of Caladium plants placed with this collection will give your customers the idea! Display carton is 24 x 12 x 6 inches and opens up to 19½ inches high. Contains bags with variety name and simple growing instructions.



**Ball Caladium Collection** has been sales tested and consists of varieties in popular demand. Consists of 25 bulbs each of 5 named varieties, and 25 assorted bulbs. All bulbs are No. 1's (1½ to 2 in.).

**Ball Caladium Collection.** 150 bulbs for **\$26.50**. F.O.B. Florida. Available January through May.

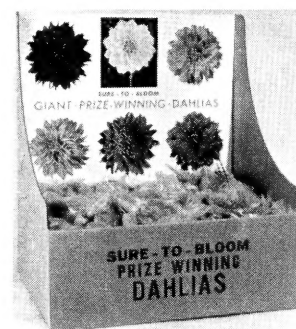
We will pack our collection by variety to your order, if you prefer.

## DAHLIAS

The **Ball Dahlia Collection** is designed for the average "back-yard" gardener who wants some Dahlias in his planting. Tubers are packed individually in polyethylene bags. Collection consists of 25 tubers each of the following colors in large flowered varieties:

**Red    White    Pink    Yellow**  
**Lavender    Autumn Shades**

Shipping carton opens up into a display case and includes colored poster.



**Ball Dahlia Collection** of 150 tubers for **\$30.00**. F.O.B. Michigan. Available November on.

## BEGONIAS - GLOXINIAS

For your more discriminating and "advanced-gardener" customers. Tell them to start them in peat moss and plant in 5- or 6-inch pots. Seventy degree temperatures are ideal. A Begonia and Gloxinia plant in flower placed with this collection will sell bulbs like the proverbial "hot cakes."

**Ball Begonia Collection** contains 200 2-2½ in. Belgian bulbs, 25 each: White, Orange, Scarlet, Yellow, Crimson, Salmon, Copper, and Rose—each variety packed in a separate bag. With each collection we supply an 8 x 20 in. colored window display streamer (see picture), a cultural information sheet for your customers to read, a complete set of 5½ x 8½ in. colored pictures of all eight varieties, and three newspaper mats for advertising in your local newspaper. **Ball Begonia Collection**, shipped f. o.b. West Chicago from January on. 200 bulbs for **\$30.00**.



### Begonia-Gloxinia Collection

150 Assorted Tuberous Rooted Begonia Bulbs.

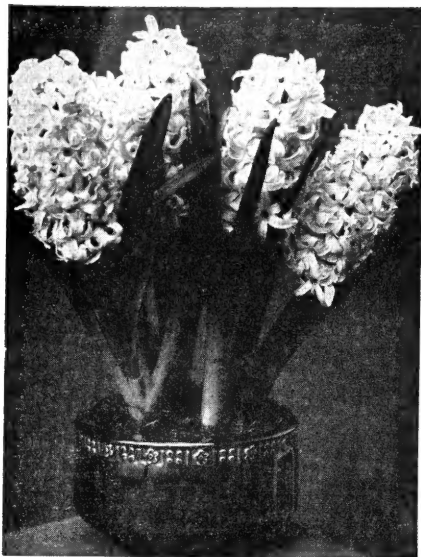
100 Assorted Gloxinia Bulbs.

250 bulbs for **\$31.50**.

F.O.B. West Chicago. Delivery January through March.

Don't miss out on your share of this business.





# HYACINTHS

## An Easy, Profitable, Quick-Turnover Crop!

Three important fundamentals in forcing Hyacinths:

**1. Choose Proper Varieties.** Use prepared bulbs (Pink Pearl, Bismarck or L'Innocence) for earliest forcing. Varieties listed below are marked for their forcing season. Use only 18/19 or 19 up bulbs for early forcing, and 17/18 for later forcing.

**2. Establish a Good Root System and Top Growth Before Forcing.** Pot bulbs and place in a dark location at 50° until roots are well started and top growth is at least 1 inch out of the pot. For later flowering, pots may be left in 50° until just before buds begin to open.

**3. Forcing.** Bring out of 50° storage into a 65° or 70° greenhouse with shade. When shoots begin to grow remove shade and force to flowering at 60°. When flowers begin to show color reduce temperature to 50° to harden.

See August, 1956, GROWER TALKS or BALL RED BOOK for complete Hyacinth forcing directions.

See page 3 for packaged Hyacinth bulbs for resale.

**Anne Marie.** Clear pink, very early.  
**Carnegie.** Pure white, late forcing.  
**City of Haarlem.** Golden yellow, medium forcer.  
**Jan Bos.** Scarlet, very early.  
**Pink Pearl.** Rosy pink, very early forcer.

Prices on above:

	19 up	18/19	17/18	16/17	15/16	14/15
Per 100	\$ 19.00	\$ 16.50	\$ 13.50	\$10.50	\$ 9.00	\$ 7.50
Per 1000	180.00	155.00	125.00	95.00	80.00	65.00

**Delight.** Light pink, early.  
**Gertrude.** Rosy pink, medium forcer.  
**La Victoire.** Bright carmine-red, early.  
**L'Innocence.** Pure white, very early. Our biggest selling variety.  
**Marconi.** Bright pink, late forcer.  
**Queen of Pinks.** Bright pink, late forcer.

Prices on above:

	19 up	18/19	17/18	16/17	15/16	14/15
Per 100	\$ 16.50	\$ 14.50	\$ 12.00	\$ 9.50	\$ 8.00	\$ 7.00
Per 1000	155.00	135.00	110.00	85.00	70.00	60.00

**Bismarck.** Light porcelain-blue, very early forcer.  
**Delft Blue.** Porcelain-blue, medium forcer.  
**King of Blues.** Dark blue, late forcer.  
**Ostara.** Violet-blue, medium forcer.

Prices on above:

	19 up	18/19	17/18	16/17	15/16	14/15
Per 100	\$ 13.50	\$ 12.00	\$ 10.00	\$ 8.50	\$ 7.50	\$ 6.50
Per 1000	125.00	110.00	90.00	75.00	65.00	55.00

### PREPARED HYACINTHS

Should be used for earliest forcing. Bulbs have been exposed to a special heat treatment in Holland. This treatment causes the bulbs to force earlier and more uniformly. Prepared bulbs are graded and sold as 1st size, 2nd size and 3rd size; the 1st size grade being the largest available.

	1st Size	2nd Size	3rd Size
<b>Pink Pearl</b>			
Per 100	\$ 19.00	\$ 16.50	\$ 13.50
Per 1000	180.00	155.00	125.00
<b>L'Innocence</b>			
Per 100	16.50	14.50	12.00
Per 1000	155.00	135.00	110.00
<b>Bismarck</b>			
Per 100	13.50	12.00	10.00
Per 1000	125.00	110.00	90.00

### Hyacinth bulbs are packed as follows:

18/19 & 19 up, 50 bulbs per bag.  
16/17 & 17/18, 100 bulbs per bag.  
15/16, 175 bulbs per bag.  
14/15, 200 bulbs per bag.

Bulbs available September. Above prices are f.o.b. West Chicago, East Coast, South Coast, West Coast, or Great Lakes ports of entry if ordered in case lots (500 bulbs or more) and by August 15.

### HOLLAND-GROWN IRIS

A good buy for greenhouse flowering from March throughout the spring. Also good for outdoor flowering in warm climates or in cold frames in the North. Delivery from October on.

Minimum order, 500 bulbs and 100 bulbs per variety and size. F.O.B. West Chicago. Case lots f.o.b. East Coast, South Coast, or West Coast ports of entry if order is received by us before August 15. Cases contain: 6,000 6/7; 4,000 7/8; and 3,000 8/9.

For our customers who need smaller amounts each of the best Holland-grown varieties, we offer the following collections. F.O.B. West Chicago, East Coast, South Coast or West Coast ports of entry if order is received by us before August 15. Delivery from October on.

#### HOLLAND IRIS COLLECTION No. 1.

All bulbs size 6/7.  
For outdoor or frame growing.

1,000 **Van Vliet.**  
1,000 **Golden Harvest**  
1,000 **White Perfection**  
2,000 **Imperator**

5,000 bulbs for \$50.00.

#### HOLLAND IRIS COLLECTION No. 2.

All bulbs are size 7/8.  
For greenhouse flowering from April on or for outdoor flowering.

1,000 **Imperator**  
1,000 **Golden Harvest**  
1,000 **White Perfection**  
1,000 **Van Vliet**

4,000 bulbs for \$66.00

#### HOLLAND IRIS COLLECTION No. 3.

All bulbs size 8/9.  
For greenhouse flowering from March on.

1,000 **Imperator**  
1,000 **Golden Harvest**  
1,000 **White Perfection**

3,000 bulbs for \$75.00

Price Per 1000

	6/7	7/8	8/9
<b>Van Vliet.</b> Dark blue	\$11.00	\$17.00	\$25.00
<b>Imperator.</b> Late dark blue	11.00	17.00	25.00
<b>Golden Harvest.</b> Deep golden yellow.	11.00	18.00	27.00
<b>Yellow Queen.</b> Golden yellow	17.00	29.00	....
<b>White Excelsior.</b> Pure white	11.00	16.00	24.00
<b>White Superior.</b> Pure white	12.00	17.00	26.00
<b>White Perfection.</b> Pure white	12.00	17.00	26.00

# IRIS

## AMERICAN-GROWN

One of our most widely grown and profitable cut-flower bulb crops—particularly for the greenhouse operator who frequently fits a crop of precooled Iris into his schedule as a quick-turnover, mid-winter "catch crop." Although Wedgewood is the standard for early forcing, there are several other excellent blues, whites and yellows.

There are three principal seasons of greenhouse Iris flowering. Each requires different forcing conditions and the question of varieties is most important. See August, 1956, GROWER TALKS or BALL RED BOOK for detailed cultural information.

**Earliest Forcing.** Flowering from mid-December through January, precooled, heat cured, Wedgewood sizes 10/11 or 11 up should be used exclusively. Bulbs should be planted 3 x 3 inches from October 15 on. Temperature should start at 50° and be raised a degree or two at a time until between 55° and 60° at flowering time. Cooler temperatures produce better quality but warmer temperatures bring flowers earlier. Take your pick! All forcing Iris prefer full sunlight with plenty of water and air circulation.

**Midseason Forcing.** For the months of February and March the list of varieties broadens to include (in addition to Wedgewood) such beautiful varieties as Blue Ribbon, Golden Harvest, Moonlight, Pacific Gold, White Perfection and Snowdrift. Use largest sized bulbs available. Precool for 8 weeks and plant beginning November 15 for February 15 flowering.



**BLUE RIBBON**



**WHITE PERFECTION**

Two of the most popular newer varieties of Iris.

**Spring Flowering.** From April 1st on such varieties as White Superior, Snowdrift, Yellow Queen, Yellow Prince, Van Vliet, White Excelsior, and Imperator may be added to the list. Imperator is the standard deep blue for spring flowering. For this planting smaller sized American-grown and Holland bulbs may be used and no precooling is necessary.

The following prices were in effect for the 1957-1958 season. However, depending on crop conditions in the growing fields, these prices are quoted subject to availability and price adjustments.

### WEDGEWOOD (Light Blue)

American-Grown

#### PRECOOLED HEAT CURED

See (1) below for f.o.b. points.

Bulb Size	All prices are per 1,000 bulbs			
	Min. Amt.	1,000	5,000	10,000
8 1/2 / 9	2500	\$21.50	\$21.00	\$20.50
9 / 10	1500	34.50	33.50	32.50
10 / 11	1000	54.50	53.00	51.50
11 up	1000	62.00	60.00	58.00

#### REGULAR (not precooled).

See (2) below for f.o.b. points.

Bulb Size	All prices are per 1,000 bulbs			
	1,000	5,000	10,000	20,000
8 1/2 / 9	\$20.00	\$19.50	\$19.00	\$18.00
9 / 10	33.00	32.00	31.00	29.50
10 / 11	52.50	51.00	49.50	47.50
11 up	60.00	58.00	56.00	54.00

#### REGULAR (not precooled).

F.O.B. Washington growing fields.

Bulb Size	All prices are per 1,000 bulbs			
	1,000	5,000	10,000	20,000
8 1/2 / 9	\$18.00	\$17.50	\$17.00	\$16.50
9 / 10	30.00	29.00	28.50	27.50
10 / 11	48.50	47.00	46.00	44.50
11 up	55.00	53.50	52.00	50.50

### BLUE RIBBON (Prof. Blaauw)

(For best results precool for 8 weeks before planting).

#### PRECOOLED (8 weeks) heat cured.

F.O.B. Warehouse. See (1) below.

Bulb Size	All prices are per 1,000 bulbs			
	Min. Amt.	1,000	5,000	10,000
9 / 10	1500	\$35.50	\$34.50	\$33.50
10 / 11	1000	55.50	54.00	52.50
11 up	1000	63.50	61.50	59.50

#### REGULAR (not precooled).

See (2) below for f.o.b. points.

Bulb Size	All prices are per 1,000 bulbs			
	1,000	5,000	10,000	20,000
8 1/2 / 9	\$22.00	\$21.00	\$20.00	\$19.00
9 / 10	33.00	32.00	31.00	29.50
10 / 11	52.50	51.00	49.50	47.50
11 up	60.00	58.00	56.00	54.00

#### REGULAR (not precooled).

F.O.B. Washington growing fields.

Bulb Size	All prices are per 1,000 bulbs			
	1,000	5,000	10,000	20,000
8 1/2 / 9	\$20.00	\$19.50	\$19.00	\$18.00
9 / 10	30.00	29.00	28.50	27.50
10 / 11	48.50	47.00	46.00	44.50
11 up	55.00	53.50	52.00	50.50

### OTHER AMERICAN-GROWN

**YELLOW**  
Golden Harvest  
Pacific Gold  
Moonlight

**WHITE**  
White Superior  
White Perfection  
Snowdrift

(Not Precooled)

F.O.B. Warehouses		F.O.B. Washington	
See (1) Below		Growing Fields	
Size	Per 1,000 Bulbs	Size	Per 1,000 Bulbs
6 / 7	\$19.00 \$18.00	6 / 7	\$18.00 \$17.00
7 / 8	31.00 29.00	7 / 8	29.00 28.00
8 / 9	46.00 44.00	8 / 9	44.00 42.50

The above 6 varieties available precooled from f.o.b. points listed in footnote (2) below in size 8/9 only for \$48.00 per 1,000, or \$46.00 per 1,000 in 5,000 lots. Minimum amount, 2500 bulbs.

**Imperator.** Late dark blue.

#### REGULAR (Not Precooled)

F.O.B. Warehouses		F.O.B. Washington	
See (1) Below		Growing Fields	
Size	Per 1,000 Bulbs	Size	Per 1,000 Bulbs
6 / 7	\$16.00 \$15.00	6 / 7	\$15.00 \$14.00
7 / 8	23.50 22.50	7 / 8	22.50 21.50
8 / 9	31.00 30.00	8 / 9	30.00 29.00

## AMERICAN GROWN IRIS COLLECTIONS

For our customers who need smaller amounts each of the best forcing varieties, we offer the following collections with the benefit of larger-quantity prices. These varieties are excellent for forcing from February on. See (1) below for f.o.b.

### AMERICAN IRIS COLLECTION A

- 250 Blue Ribbon, 10/11.
- 250 Snowdrift, 8/9.
- 250 Moonlight, 8/9.
- 250 Pacific Gold, 8/9.

1000 bulbs for \$46.00

### AMERICAN IRIS COLLECTION B

- 500 Blue Ribbon, 10/11.
- 500 Snowdrift, 8/9.
- 500 Moonlight, 8/9.
- 500 Pacific Gold, 8/9.

2000 bulbs for \$92.00

### AMERICAN IRIS COLLECTION C

- 1,000 Blue Ribbon, 10/11.
- 1,000 Snowdrift, 8/9.
- 1,000 Moonlight, 8/9.
- 1,000 Pacific Gold, 8/9.

4,000 bulbs for \$182.00

#### NOTES:

- Regular (not precooled) prices are quoted f.o.b. the following cities: Denver; Dallas; Omaha; Minneapolis; Milwaukee; Indianapolis; Elmira; Atlanta; Jersey City; Springfield, Mass.; West Chicago; Kansas City, Kansas; St. Louis; Detroit; Cincinnati; and Pittsburgh.
- Precooled bulb prices are quoted f.o.b. the following cities: Denver; Dallas; Omaha; Minneapolis; Milwaukee; Indianapolis; Elmira; Atlanta;

Jersey City; Springfield, Mass.; and West Chicago.

Delivery on regular Iris bulbs from Washington fields, early September: regular Iris bulbs from eastern warehouses, mid- to late September on: precooled Wedgewood from eastern warehouses, mid- to late October on: precooled bulbs of all other varieties from mid-November on.

Precooled Wedgewood bulbs are stored at 48° for 6 weeks; all other varieties 48° for 8 weeks.



# GROW and SELL TULIPS

SEE PAGE 3 FOR RESALE TULIP BULB COLLECTIONS

## Forcing - - 3 Important Steps!

1. **Use Correct Varieties.** Some Tulip varieties force well and others don't. Some are excellent for early forcing and others for midseason or late. Use the table at bottom of this page to help you choose correct varieties.

### AMERICAN-GROWN TULIPS

We offer American-grown bulbs of the following varieties. Available in September. Prices are f.o.b. the following shipping points for orders of 1,000 bulbs or more: Denver; Omaha; Kansas City; Dallas; Minneapolis; Milwaukee; West Chicago; St. Louis; Atlanta; Jersey City; Detroit; Indianapolis; Cincinnati; Elmira; Pittsburgh; and Springfield, Mass.

	12 Up		11/12	
	Per 100	Per 1000	Per 100	Per 1000
* <b>Albino.</b> (Cottage.) Pure white	\$5.50	\$45.00	\$4.75	\$37.50
<b>All Bright.</b> (Darwin.) Bright red	5.50	45.00	4.75	37.50
* <b>Bartigon.</b> (Darwin.) Cochineal-red	5.50	45.00	4.75	37.50
* <b>Campfire.</b> (Darwin.) Blood-red	5.50	45.00	4.75	37.50
<b>Carrara.</b> (Cottage.) White	5.50	45.00	4.75	37.50
<b>Clara Butt.</b> (Darwin.) Salmon, rose-pink	5.50	45.00	4.75	37.50
<b>Cordell Hull.</b> (Rembrandt.) Red on white	5.50	45.00	4.75	37.50
* <b>Demeter.</b> (Darwin.) Reddish purple, early	6.50	55.00	5.50	42.50
<b>Elmus.</b> (Triumph.) Cherry-red, white border	6.50	55.00	5.50	42.50
* <b>Golden Harvest.</b> (Cottage.) Lemon-yellow	5.50	45.00	4.75	37.50
<b>Niphetos.</b> (Darwin.) Sulphur-yellow	6.50	55.00	5.50	42.50
<b>Olaf.</b> (Mendel.) Scarlet, early	7.00	60.00	6.50	55.00
* <b>Paul Richter.</b> (Darwin.) Geranium-red	7.00	60.00	6.50	55.00
<b>Princess Elizabeth.</b> (Darwin.) Rose	5.50	45.00	4.75	37.50
<b>Philip Snowden.</b> (Darwin.) Light carmine-rose	5.50	45.00	4.75	37.50
<b>Prunus.</b> (Darwin.) Salmon-pink	5.50	45.00	4.75	37.50

	12 Up		11/12	
	Per 100	Per 1000	Per 100	Per 1000
* <b>Red Pitt.</b> (Darwin.) Cochineal-red	\$5.50	\$45.00	\$4.75	\$37.50
<b>Smiling Queen.</b> (Cottage.) Dark pink, edged silver	6.50	55.00	5.50	42.50
* <b>Topscore.</b> (Mendel.) Geranium-red, yellow base	7.00	60.00	6.50	55.00
* <b>Wm. Copeland.</b> (Darwin.) Lavender	5.50	45.00	4.75	37.50
* <b>Wm. Pitt.</b> (Darwin.) Cochineal-red	5.50	45.00	4.75	37.50

\*We offer precooled bulbs (stored for 6 weeks at 40° and 75% to 85% relative humidity) of the varieties starred, size 12 up only, f.o.b. the following cold storage shipping points: Denver; Dallas; Omaha; Minneapolis; Milwaukee; Indianapolis; Atlanta; Elmira; Jersey City; West Chicago; and Springfield, Mass. Available in late October. Minimum order for precooled bulbs, 1,000; 250 of any variety. Allow 50c per 100 or \$2.00 per 1,000 additional for precooling.

Recent work by the U.S.D.A. indicates the possibility of eliminating the 4 to 6 week cool temperature storage **after** potting by prolonged precooling of bulbs **before** potting. For instance, Wm. Pitt, Golden Harvest and Paul Richter were successfully forced by precooling at 40° for 12 weeks and then put directly into 60° forcing. This prolonged precooling period apparently has the effect of conditioning the roots to develop more rapidly so that a separate root-development period is not necessary.

If further tests prove successful, this prolonged precooling procedure should eliminate the costly work of storing and moving flats during the rooting period.

	JANUARY		VALENTINE'S DAY		MARCH	EASTER	MOTHER'S DAY
	AMERICAN-GROWN		AMERICAN-GROWN				
	Regular	Precooled	Regular	Precooled			
<b>RED</b>	Krelage's Triumph	Paul Richter Red Pitt Topscore Wm. Pitt	Electra Krelage's Triumph Olaf Orange Nassau Paul Richter Red Pitt Wm. Pitt	Bartigon Paul Richter Topscore	Bartigon Campfire Olaf Red Pitt Wm. Pitt Red Giant	Bartigon Campfire Crater Electra Orange Nassau Red Giant Red Pitt Wm. Pitt	Bartigon Campfire Farncombe Sanders
<b>PINK and ROSE</b>	Rose Copeland		Peachblossom Rose Copeland Smiling Queen		Philip Snowden Pr. Elizabeth Rose Copeland	Philip Snowden Pr. Elizabeth Prunus Peachblossom	
<b>LAVENDER and PURPLE</b>	Wm. Copeland	Demeter Wm. Copeland	Demeter	Demeter	Insurpassable		Insurpassable
<b>YELLOW</b>		Golden Harvest	Golden Harvest Mamassa Mr. Van der Hoef	Golden Harvest	Golden Harvest	Golden Harvest Mr. Van der Hoef Niphetos	Belle Jaune Mrs. J. T. Scheepers Niphetos
<b>WHITE</b>		Albino	Albino	Albino	Albino Carrara	Albino Carrara	Albino
<b>BICOLOR</b>			Denbola Elmus		Denbola	Denbola	



# FOR PROFIT



**2. Establish a Root System.** Whether grown for pots or cutting, Tulips must have a vigorous root system BEFORE forcing starts. This means planting bulbs in a loose, well-drained soil, water thoroughly and keep between 40° and 50° until roots are well started and the growing tip is 2 or 3 inches above the soil—4 to 6 weeks are usually required. Bulbs may be kept outdoors or in controlled temperature chambers (40°-50° is the main thing).

**3. Force Tulips at 55° for the first 10 days** and then 65° until flowered.

## HOLLAND TULIP BULBS

	12 Up		11/12	
	Per 100	Per 1000	Per 100	Per 1000
<b>RED &amp; ORANGE</b>				
Red Emperor. (Botanical.) 20 in. Early flowering, fiery scarlet	\$6.50	\$54.00	\$5.50	\$44.00
All Bright. (Darwin.) 24 in. Bright red.	6.50	54.00	4.75	38.00
*Bartigon. (Darwin.) 24 in. Coch.-red.	5.50	45.50	4.75	38.00
Bartigon Max. (Darwin.) Larger form of Bartigon	6.25	52.00	4.75	38.00
*Campfire. (Darwin.) 24 in. Blood-red	6.25	52.00	4.75	38.00
City of Haarlem. (Darwin.) 28 in. Scarlet	7.25	63.00	6.75	56.00
*Crater. (Triumph.) 16 in. Carmine-red.	5.50	44.00	4.75	38.00
Desiree. (Darwin.) 24 in. Brilliant orange-scarlet	6.50	54.00	5.50	42.50
*Electra. (Early Double.) 10 in. Deep cherry-red	7.00	60.00	5.50	44.00
*Farncombe Sanders. (Darwin.) 28 in. Scarlet	5.50	45.50	4.75	38.00
*Krelage's Triumph. (Mendel.) 14 in. Deep red for early forcing	5.00	40.00	4.50	35.00
*Olaf. (Mendel.) 14 in. Scarlet, early.	6.25	52.00	5.00	40.00
*Orange Nassau. (Early Double.) 10 in. Orange-red	7.25	63.00	6.00	49.50
*Paul Richter. (Darwin.) 22 in. Geranium-red, early	6.75	58.00	5.50	44.00
Princess Margaret Rose. (Cottage) 22 in. Yellow-flushed orange-red	5.50	45.50	5.00	40.00
*Red Giant. (Triumph.) 16 in. Soft red.	6.50	54.00	5.00	40.00
*Red Pitt. (Darwin.) 24 in. Bright red	6.25	52.00	4.75	38.00
*Topscore. (Mendel.) 14 in. Geranium-red, yellow base	6.75	56.00	5.00	40.00
*Wm. Pitt. (Darwin.) 24 in. Coch.-red.	5.50	44.00	4.75	38.00
<b>PINK, ROSE &amp; SALMON</b>				
Aristocrat. (Darwin.) 28 in. Violet-rose.	6.25	52.00	5.50	44.00
Clara Butt. (Darwin.) 24 in. Salmon, rosy pink	5.50	44.00	4.75	38.00
Elizabeth Evers. (Triumph.) 15 in. Beautiful pink	5.50	45.50	4.75	38.00
*Peach Blossom. (Early Double.) 10 in. Deep pink	7.00	60.00	6.00	44.00
*Philip Snowden. (Darwin.) 24 in. Light carmine-rose	5.50	44.00	4.75	38.00
Pink Beauty. (Early Single.) 12 in. Deep rose and white	6.75	58.00	6.25	52.50
*Princess Elizabeth. (Darwin.) 26 in. Rose	5.50	45.50	4.75	38.00
*Prunus. (Darwin.) 24 in. Salmon-pink	5.50	45.50	4.75	38.00
*Rose Copeland. (Darwin.) 24 in. Lilac-rose	5.00	40.00	4.50	36.00
*Smiling Queen. (Cottage.) Dark pink, edged silver	6.50	54.00	5.50	44.00
<b>LAVENDER, PURPLE &amp; BLACK</b>				
Blue Parrot. (Parrot.) 24 in. Lavender.	6.25	52.00	5.00	40.00
Demeter. (Darwin.) 28 in. Reddish purple, Early	6.25	52.00	5.50	44.00
*Insurpassable. (Darwin.) 26 in. Lilac	6.25	52.00	5.00	40.00
La Tulipe Noire. (Darwin.) 26 in. Deep velvety maroon-black	6.25	52.00	5.00	40.00
Queen of Night. (Darwin.) 28 in. Purplish black	6.25	52.00	4.75	38.00
The Bishop. (Darwin.) 28 in. Violet-purple	6.25	52.00	5.00	40.00
*Wm. Copeland. (Darwin.) 24 in. Lavender	5.00	40.00	4.75	38.00
<b>WHITE</b>				
*Albino. (Cottage.) 20 in. Pure white	6.25	52.00	5.00	40.00



DARWIN, PAUL RICHTER

	12 Up		11/12	
	Per 100	Per 1000	Per 100	Per 1000
*Carrara. (Cottage.) 20 in. White	\$5.50	\$45.50	\$5.00	\$40.00
Kansas. (Triumph.) 16 in. Snow-white.	5.50	44.00	5.00	40.00
Zwanenburg. (Darwin.) 26 in. Ivory	6.25	52.00	5.50	42.50
<b>YELLOW</b>				
*Belle Jaune. (Cottage.) 24 in. Deep yellow	5.50	45.50	4.75	38.00
Golden Age. (Darwin.) 24 in. Yellow, flushed salmon-orange	6.25	52.00	5.00	40.00
*Golden Harvest. (Cottage.) 26 in. Lemon-yellow	5.00	40.00	4.50	35.00
*Golden Measure. (Cottage.) 26 in. Deep canary-yellow	6.25	52.00	5.00	40.00
Makassar. (Triumph.) Canary-yellow	6.75	58.00	5.25	42.50
*Mamassa. (Darwin.) 26 in. Bright buttercup-yellow	6.25	52.00	5.00	40.00
Marechal Niel. (Early Double.) 10 in. Yellow, flushed orange	7.00	60.00	5.50	44.00
*Mr. Van der Hoef. (Early Double.) 10 in. Pure yellow	7.00	60.00	5.50	44.00
*Mrs. John T. Scheepers. (Cottage.) 24 in. Light yellow	6.50	54.00	5.50	44.00
*Niphetos. (Darwin.) 26 in. Sulphur-yellow	6.25	52.00	5.00	40.00
Sunkist. (Darwin.) 26 in. Deep yellow.	5.50	44.00	4.75	38.00
Ursa Minor. (Early Single.) 13 in. Golden yellow	5.50	44.00	5.00	40.00
Yellow Giant. (Darwin.) 30 in. Golden yellow	5.00	40.00	4.75	38.00
<b>BICOLOR</b>				
*Cordell Hull. (Rembrandt.) 24 in. Red on white	6.25	52.00	4.75	38.00
*Denbola. (Triumph.) 16 in. Cerise-red with cream	6.50	54.00	5.00	40.00
Edith Eddy. (Triumph.) 18 in. Carmine-red, edged white	5.50	45.00	4.75	38.00
*Elmus. (Triumph.) 18 in. Cherry-red, white border	6.25	52.00	5.00	40.00
Fantasy. (Parrot.) 22 in. Deep salmon, blotched green	5.50	45.50	5.00	40.00
Her Grace. (Mendel.) 18 in. Pink and white	5.50	44.00	5.00	40.00
Keizerskroon. (Early Single.) 14 in. Red and yellow	6.25	52.00	5.50	44.00
Choice Mixture of Darwin Tulips	5.00	40.00	4.50	36.00
*Starred varieties best for forcing.				
F.O.B. West Chicago or case lots f.o.b. East Coast, South Coast, West Coast, or Great Lakes ports of entry if orders are received by July 1. Minimum order, 1,000 bulbs total; 100 per variety and size. Bulbs packed 100 or 250 per bag. 250 bulbs priced at the 1,000 price.				

# DAFFODILS

## AMERICAN-GROWN

	F.O.B. Eastern Cities see (1) below		F.O.B. West Coast		Precooled F.O.B. Eastern Cities see (2) below	
	Per 100	Per 1000	Per 100	Per 1000	Per 1000	Per 5000
<b>King Alfred</b>						
Jumbo	\$12.00	\$110.00	\$11.00	\$96.00	\$115.00	\$110.00
DN No. 1	9.50	85.00	8.50	72.00	95.00	92.50
DN No. 2	7.50	60.00	6.50	48.00	....	....
<b>Golden Harvest</b>						
DN No. 1	12.50	115.00	12.00	105.00	125.00	120.00
DN No. 2	10.00	90.00	9.50	80.00	....	....
<b>Rembrandt</b>						
DN No. 1	11.50	105.00	11.00	90.00	115.00	110.00
DN No. 2	9.00	80.00	8.00	70.00	....	....

Delivery from September on. Precooled bulbs delivered from mid-October to late October. Minimum order from pre-cooling: 250 bulbs per variety and size.  
250 bulbs priced at thousand price.

1. All American-grown Daffodil bulbs shipped f.o.b. the following cities (minimum order 250 bulbs—smaller orders shipped f.o.b. West Chicago): Denver; Dallas; Omaha; Minneapolis; Milwaukee; Indianapolis; Elmira; Atlanta; Jersey City; Springfield, Mass.; West Chicago; Kansas City, Kansas; St. Louis; Detroit; Cincinnati; and Pittsburgh.

2. Precooled bulbs shipped f.o.b. the following cities: Denver; Dallas; Omaha; Minneapolis; Milwaukee; Indianapolis; Atlanta; Elmira; Jersey City; Springfield, Mass.; and West Chicago.

## Other Varieties

See (1) below for f.o.b. points.

	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
<b>Beersheba.</b> Pure white trumpet	\$16.50	\$155.00	\$13.50	\$125.00
<b>Flower Carpet.</b> Deep yellow	9.50	85.00	7.50	60.00
<b>Mrs. E. H. Krelage.</b> Creamy white	10.50	95.00	7.50	65.00
<b>Spring Glory.</b> White with yellow trumpet	12.00	110.00	9.00	80.00
<b>Queen of the Bicolors.</b> White with yellow trumpet	13.00	120.00	10.00	90.00
<b>Actaea</b> (Poeticus). White with yellow cup edged red	9.00	80.00	7.50	65.00
<b>Cheerfulness</b> (Double Poetaz). Creamy white	8.00	70.00	6.50	55.00
<b>Cragford</b> (Poetaz). Large white perianth, orange-red eye	10.50	95.00	8.00	65.00
<b>Fortune</b> (Incomp.). Perianth golden yellow with deep orange cup	9.50	85.00	8.00	65.00
<b>Geranium</b> (Poetaz). Pure white, orange cup	9.50	85.00	7.00	65.00
<b>Laurens Koster</b> (Poetaz). White with orange, yellow cup	8.00	70.00	6.50	55.00
<b>Scarlet Elegance</b> (Incomp.). Yellow-orange with red cup	9.50	85.00	7.50	65.00
<b>Texas</b> (Double). Yellow and fiery orange	13.00	120.00	10.00	90.00

## HOLLAND-GROWN

We offer the following f.o.b. West Chicago, East Coast, South Coast, West Coast, or Great Lakes Ports of Entry, if orders in case lots are received by us before July 1st. September delivery. Cases

hold 500 bulbs of trumpet and Large Cupped varieties, DN No. 1, or 750 bulbs of DN No. 2. Cases of Poetaz and Double varieties: DN No. 1 hold 750 bulbs, or 1250 bulbs of DN No. 2.

	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
<b>DOUBLE VARIETIES</b>				
<b>Texas.</b> Yellow and orange	\$ 8.50	\$76.00	\$8.00	\$72.00
<b>Twink.</b> Creamy white, orange center	8.50	76.00	8.00	70.00
<b>Von Sion.</b> Yellow	11.00	100.00	9.50	85.00
<b>TRUMPET VARIETIES</b>				
<b>Beersheba.</b> Pure white	12.00	110.00	9.50	85.00
<b>Flower Carpet.</b> Deep yellow	10.00	90.00	8.50	75.00
<b>Golden Harvest.</b> Golden yellow	12.00	110.00	9.50	85.00
<b>King Alfred.</b> Golden yellow	9.50	85.00	8.00	70.00
<b>Mrs. E. H. Krelage.</b> Creamy white	9.00	80.00	8.00	70.00
<b>Mount Hood.</b> Pure ivory-white	10.00	90.00	8.50	75.00
<b>Queen of Bicolors.</b> White with yellow trumpet	9.50	83.00	8.00	70.00
<b>Rembrandt.</b> Dark golden yellow	10.00	90.00	8.25	72.00

Forced Daffodils during the midwinter months are a particularly valuable and quick "catch-crop" for the retail grower. Bench room is required for only 4 to 5 weeks for the earliest crop and progressively less time in February and March. Attention to three important fundamentals will go most of the way toward insuring a successful crop.

**1. Precooling and Proper Varieties.** For the earliest crop to flower for late December use precooled Northwest-grown Jumbo or Double-nose No. 1 bulbs of King Alfred or Golden Harvest. Rembrandt (for pots) is excellent for beginning late January. For flowering from mid-February on precooling is not necessary. Smaller sized or Holland bulbs may be used and all varieties listed below are suitable.

**2. Establish a Root System.** Immediately upon receipt from pre-cooling, pot or plant bulbs, soak thoroughly and place in dark storage held between 45° and 50°. Five weeks in storage should develop heavy roots and a little top growth.

	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
<b>LARGE-CUPPED VARIETIES</b>				
<b>Aerolite.</b> Yellow	\$ 9.50	\$83.00	\$8.00	\$70.00
<b>Dick Wellband.</b> White, orange-red cup	9.75	87.50	8.50	75.00
<b>Fortune.</b> Yellow, orange cup	9.50	85.00	8.50	75.00
<b>Mrs. R. O. Backhouse.</b> Creamy white, shell-pink cup	9.50	85.00	8.00	70.00
<b>Scarlet Elegance.</b> Yellow, cup deep orange-red	9.50	85.00	8.00	70.00
<b>Actaea.</b> White, scarlet eye	9.00	80.00	7.50	65.00

## POETAZ VARIETIES

	DN No. 1		DN No. 2	
	Per 100	Per 1000	Per 100	Per 1000
<b>Cheerfulness.</b> White with yellow center	7.50	65.00	7.00	60.00
<b>Geranium.</b> White with deep orange-red cup	8.00	70.00	6.50	55.00
<b>Laurens Koster.</b> White, yellow cup	7.50	65.00	6.50	55.00
<b>L'Innocence.</b> White, yellow cup	8.00	70.00	6.50	55.00

**3. Forcing** should start immediately after the initial storage period. Force at temperatures between 60° and 65°. The warmer the temperature, the quicker they flower; but generally the cooler the temperature, the better the quality of flowers. Provide full sunlight and plenty of water. The first planting that went into storage in mid-October should be forced beginning the last week in November and will flower for Christmas at 65°. In January, 4 weeks of forcing at 60° should be sufficient and 2 weeks in March and April. Bulbs may be kept in storage until time for forcing.

Ball Daffodil bulbs are the finest available. Digging, grading, packing and transporting are done by experts. If we precool for you, bulbs are stored at cold-storage houses experienced in handling bulbs 6 weeks at 48° to 50°, with 85% relative humidity maintained. We will ship from any of the cities listed above. If you use Ball Daffodils, you'll agree that there are none better.

# MISCELLANEOUS BULBS

## AMARYLLIS

An important item for resale of bulbs to home gardeners and also as a flowering pot plant for retail sales. Our strain is one of the finest available. Your customers will appreciate the extra large flowers and brilliant colors.  $2\frac{1}{2}$  to  $2\frac{3}{4}$  in. bulbs usually produce only one flowering spike, whereas the larger sizes will produce two. F.o.b. California.

### SEPARATE COLORS:

**Crimson, Red, Scarlet Shades and Variegated Shades.**

Prices on above:	Per 10	Per 100	Per 1000
$2\frac{1}{2}$ to $2\frac{3}{4}$ in. ....	\$4.00	\$35.00	\$325.00
$2\frac{3}{4}$ to 3 in. ....	4.50	40.00	375.00
3 to $3\frac{1}{4}$ in. ....	5.50	50.00	475.00
<b>Mixture of all colors.</b>			
$2\frac{1}{2}$ to $2\frac{3}{4}$ in. ....	3.00	25.00	225.00
$2\frac{3}{4}$ to 3 in. ....	3.50	30.00	275.00
3 to $3\frac{1}{4}$ in. ....	4.50	40.00	375.00

## ANEMONE

A good cut-flower item during winter and spring. Plant bulbs in October in pots or benches. Use a well drained, sterilized soil. Plant 4 x 10 in. Anemones are a "cold-house" plant. Night temperatures as near 40° as possible will produce the best flowers. However, temperatures somewhat above outside temperatures to keep humidity down are important. Be careful in watering not to wet crown of the plant. A crown rot is the most serious enemy of Anemone. Our bulbs are West Coast grown.

	$\frac{1}{2}$ to $\frac{5}{8}$ in.	$\frac{5}{8}$ to $\frac{3}{4}$ in.	$\frac{3}{4}$ to $\frac{7}{8}$ in.
<b>Monarch de Caen.</b> Single Poppy type. Mixed.			
Per 100 .....	\$ 2.00	\$ 4.00	\$ 5.50
Per 1000 .....	11.00	30.00	48.00

<b>St. Brigid.</b> Double mix.	<b>The Bride.</b> Single pure white.
<b>Blue Poppy.</b> Single bright blue.	<b>Rosea (Sylphide).</b> Single fuchsia-rose.
<b>His Excellency.</b> Single scarlet.	<b>Lord Lieutenant.</b> Double blue.
<b>The Admiral.</b> Double rose.	<b>The Governor.</b> Double scarlet.

	$\frac{1}{2}$ to $\frac{5}{8}$ in.	$\frac{5}{8}$ to $\frac{3}{4}$ in.	$\frac{3}{4}$ to $\frac{7}{8}$ in.
Per 100 .....	\$ 2.50	\$ 4.50	\$ 5.50
Per 1000 .....	14.00	35.00	48.00

Shipped f.o.b. California or West Chicago. Minimum order, 100 bulbs per variety and size. Bulbs available in September.

## BEGONIAS BELGIAN-GROWN

Shipped f.o.b. West Chicago during December and January. F.O.B. New York in case lots; if order is received by us before November 1.

### DOUBLE CAMELLIA-FLOWERED

Scarlet	Crimson	Yellow	Copper
Salmon	White	Rose	Orange
Mixed			

Prices on above varieties and mixture:	Per 100	Per 1000
Size of tuber		
$1\frac{1}{4}$ to $1\frac{1}{2}$ in. ....	\$ 7.00	\$ 60.00
$1\frac{1}{2}$ to 2 in. ....	11.00	90.00
2 to $2\frac{1}{2}$ in. ....	16.00	140.00
$2\frac{1}{2}$ to 3 in. ....	22.00	200.00

Minimum order 100 tubers please. Case lots consist of 7,000  $1\frac{1}{4}$  to  $1\frac{1}{2}$  in., 3,500  $1\frac{1}{2}$  to 2 in., and 2,000 2 in. up. The above prices were in effect during the 1956-1957 season and are subject to change for 1957-1958 season.

## BEGONIAS, Continued

### AMERICAN-GROWN

Shipped f.o.b. California or West Chicago.

### DOUBLE CAMELLIA-FLOWERED

White	Red Salmon	American Beauty
Light Salmon	Flame-Orange	Dark Salmon
Cardinal-Red	Orange	Dark Red
Scarlet	Yellow	Apricot
Rose	Pink	Mixture
Blush		

### RUFFLED CAMELLIA-FLOWERED

White	Cardinal-Red	Flame-Orange
Crimson-Rose	Dark Salmon	Light Salmon
Red-Salmon	Orange	Dark Red
Scarlet	Yellow	Apricot
Rose	Pink	Mixture
Blush		

Prices on all above varieties:

Size of tuber	Per 100	Per 1000
$1\frac{1}{4}$ to $1\frac{1}{2}$ in. ....	\$ 9.50	\$ 85.00
$1\frac{1}{2}$ to 2 in. ....	14.50	135.00
2 to $2\frac{1}{2}$ in. ....	19.00	180.00
$2\frac{1}{2}$ in. up .....	27.00	255.00

Minimum order, 100 bulbs please. Delivery during January and February.

See page 5 for our special resale collection of Begonia and Gloxinia tubers.

## CALADIUM

Ball Caladium bulbs are top-quality, Florida-grown. In the event of shortages of sizes you order (some varieties do not make Mammoth or Jumbo bulbs) we will ship the largest available size rather than a different variety. Minimum order, 50 bulbs please. Bulbs shipped f.o.b. Florida. Available from December on.

Ace of Hearts	Lord Derby	Red Flare
Avalon Rose	Macahyba	Red Frill
Blaze	Madam Truall	Red Glory
Candidum	Marie Moir	Redskin
Crimson Wave	Miss Sylvia Pierce	Rising Sun
Dr. Groover	Mrs. F. Sanders	Rosalie
Dutch Frill	Mrs. W. B. Haldeman	Rosebud
Edith Meade	Mrs. Arno Nerhling	Sea Gull
Exposition	Orinoco	Spangled Banner
Fannie Munson	Pink Cloud	Stoplight
Hortulania	Pink Hortulania	Sunburst
Irene Dahlberg	Pink Lady	Texas Beauty
Itacapus	Pocile Anglais	Thomas Tomlinson
Jesse Thayer	Red Emperor	T. L. Meade
John Peed	Red Ensign	White Christmas
Lady in Red		Mixture

Prices on all above varieties and mixture:

	No. 2	No. 1	Jumbo	Mammoth
	1-1 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ -2 $\frac{1}{2}$ in.	2 $\frac{1}{2}$ -3 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ up
Per 100 .....	\$ 12.00	\$ 17.50	\$ 27.50	\$ 35.00
Per 1000 .....	100.00	150.00	250.00	325.00

These prices were in effect during the 1956-1957 season and are subject to change for 1957-1958.

Write us for special quotations on larger quantities. See page 5 for our resale Caladium collection.



# MISCELLANEOUS BULBS

## CALLAS

An important cut flower and pot plant crop. For cutting, plant in benches in the fall in loose soil. Frequent watering and feeding and shade during the summer are important. Plant 2 ft. apart. *Aethiopica* forces best at 55° and *Elliottiana* and *Rehmanni Superba* at 60°. Use the yellow *Elliottiana* for Easter pot plants. Start bulbs in flats of peat moss at 60°. When root growth has started, pot in 5- or 6-inch pots. Force at 60° during growing period and 55° when flowering.

**Aethiopica.** The popular large, white Calla.

Delivery in August.	Per 100	Per 1000
1¼ to 1½ in. ....	\$ 9.75	\$ 87.50
1½ to 1¾ in. ....	17.00	160.00
1¾ to 2 in. ....	25.00	240.00
2 to 2½ in. ....	33.00	320.00
2½ in. up .....	42.00	400.00

**Elliottiana.** The popular yellow Calla.

Delivery in November.		
1¾ to 2 in. ....	11.00	97.50
2 to 2½ in. ....	17.00	160.00
2½ to 3 in. ....	32.00	300.00
3 in. up .....	47.50	465.00

**Alba Maculata.** White with spotted foliage.

November delivery.		
1¾ to 2 in. ....	10.00	90.00
2 to 2½ in. ....	16.00	150.00
2½ to 3 in. ....	27.50	265.00

**Rehmanni Superba.** The pink Calla.

November delivery.		
1¼ to 1½ in. ....	12.00	110.00
1½ to 2 in. ....	14.00	130.00
2 to 2½ in. ....	20.00	180.00
2½ in. up .....	27.50	265.00

Above prices are f.o.b. West Chicago or California.

## CANNAS

Our Cannas are high quality 2- to 5-eye divisions. Delivery from January through spring months.

President	Yellow King Humbert	Wyoming
Hungaria	Red King Humbert	Richard Wallace
	City of Portland	

Prices on above: \$6.50 per 100; \$60.00 per 1,000.

Minimum order 100, 50 of any one variety. 250 priced at the thousand rate.

## CHIONODOXA (Glory-of-the-Snow)

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery. No. 1 size bulbs. Minimum order, 100 bulbs per variety.

	Per 100	Per 1000
<b>Luciliae.</b> Light blue .....	\$2.40	\$14.00
<b>Luciliae alba.</b> White .....	2.60	16.00
<b>Sardensis.</b> Deep blue .....	2.20	12.00

## DAHLIAS

Space does not permit listing our complete Dahlia offering. If interested, write us for our complete listing—of 80 varieties—of all the large flowered, cactus, pompon and miniature varieties. Shipment of tubers made from the Midwest in March, April and May.

See page 5 for our **Ball Dahlia Collection** for resale. An excellent collection of 150 tubers, each packed in a polyethylene bag complete with large colored display poster and special display case.

## CROCUS

A perennial favorite as an early spring garden flower and for midwinter forcing. For forcing for late January flowering, pot bulbs early October and store cool (a 50° bulb cellar is fine) until root action is well started—10 to 12 weeks is usually required. Force in 55° with shade until flowers begin to show color. 3 to 4 weeks forcing is usually required in December and January with less time later in the season.

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery.

	Size 8/9 Per 1000	Size 9/10 Per 1000	Size 10/11 Per 1000
<b>Niggerboy.</b> Darkest purple .....	\$17.00	\$20.00	\$25.00
<b>Purplea Grandiflora.</b> Purple ....	17.00	20.00	25.00
<b>Queen of the Blue.</b> Porcelain-blue	17.00	20.00	25.00
<b>Remembrance.</b> Dark blue .....	17.00	20.00	25.00
<b>Striped Beauty.</b> Blue striped white	17.00	20.00	22.00
<b>Sir Walter Scott.</b> White striped purple .....	17.00	20.00	22.00
<b>Kathleen Parlow.</b> Large pure white. Early .....	22.00	29.00	35.00
<b>Snow Storm.</b> Large pure white ...	22.00	29.00	35.00
<b>Yellow Mammoth.</b> Deep yellow ..	17.00	19.00	22.00

Minimum order, 100 bulbs of any variety and size. To determine the hundred price of any one variety and size, add \$10.00 to the quoted price for 1000 bulbs and divide by 10. For instance, Niggerboy sells for \$2.70 per 100, 3 to 9 bulbs. 250 bulbs of any variety and size priced at the 1000 rate.

## FREESIAS

**TECOLOTE HYBRIDS.** Flowers of immense size, wide open and delightfully fragrant. Plants of unusual strength and vigor with tall, strong stems. Much superior to standard commercial varieties.

**Marie** (Pat. 609). Largest, earliest and most beautiful of all white Freesias.

**Talisman** (Pat. 555). Bright salmon-pink with rich cream throat. Early.

White	Red	Pink
Yellow	Lavender	Orange
Rose	Blue	Mixture

### OTHER GIANT HYBRIDS

**Mammoth White.** Giant large, pure white flowers. Very early.

**Mammoth Yellow.** Giant golden yellow. Very early.

**Judy Double Yellow.** Large double yellow.

**Flo.** Large deep blue.

**Elder's Golden Giant.** Large bright golden yellow.

**Oriole.** Fine deep golden orange. Earliest to flower.

**Sunset.** Golden orange.

**Rainbow Mixture.** Mixture of all colors.

The following prices were in effect during the 1956-1957 season. Prices subject to change for the season, 1957-1958.

	Per 100	Per 1000
½ to ⅝ in. ....	\$2.50	\$17.00
⅝ to ¾ in. ....	3.50	27.00
¾ in. up .....	4.50	42.00

F.O.B. California or West Chicago. Minimum order 100 bulbs. Available September and later.

Try forcing Crocus in pots for spring sales.

## GALANTHUS NIVALIS

(Snowdrop)

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery. All bulbs offered are No. 1 size.

	Per 100	Per 1000
Single White .....	\$3.50	\$25.00
Double White .....	5.00	40.00

## GLADIOLUS

Our bulbs are Midwest grown and stand vigorous state inspection for bulb diseases. Shipped f.o.b. West Chicago. Available December to May. See page 4 for our resale Gladiolus collection.

Price per 1000

	No. 1 1 1/2 in. Up	No. 2 1 1/4-1 1/2 in.
<b>PINK, ROSE AND SALMON</b>		
Beauty Blush. Blush over white .....	\$37.50	\$30.00
Elmers Rose. Ruffled deep rose .....	42.50	35.00
Ethel Cave Cole. Fine pink .....	24.00	18.00
C. D. Fortnam. Ruffled blush-pink .....	37.50	30.00
Friendship. Early pink .....	30.00	25.00
Magnolia. Shell-pink .....	30.00	25.00
Margaret Fulton. Salmon-pink .....	24.00	19.00
Rosa Van Lima. Light pinkish rose .....	24.00	19.00
Spic and Span. Salmon-pink .....	30.00	25.00
<b>LAVENDER AND PURPLE</b>		
Aljechin. Deep velvet purple .....	26.00	22.00
Elizabeth the Queen. Ruffled lavender ..	24.00	19.00
King David. Ruffled deep purple .....	42.00	35.00
Salmans Sensation. Violet-blue .....	48.00	42.00
<b>RED AND ORANGE</b>		
Burma. Deep rose-red .....	30.00	24.00
Daisy Mae. Tall orange, red blotch .....	30.00	25.00
Dieppe. Salmon-red .....	30.00	25.00
Joe Wagenaar. Fine dark red .....	30.00	25.00
Orange Gold. Tall orange .....	26.00	22.00
Quiberon. Apricot, cream throat .....	42.00	35.00
Sans Souci. Tall scarlet .....	30.00	25.00
Valeria. Light scarlet .....	28.00	24.00
<b>WHITE AND CREAM</b>		
Annamae. Early white .....	30.00	24.00
Florence Nightingale. Tall white .....	28.00	24.00
Lady Anne. Fine early white .....	30.00	25.00
Margaret Beaton. White, cherry throat..	24.00	19.00
Mother Fischer. Ruffled white .....	42.00	35.00
Pacifica. Ruffled white .....	30.00	25.00
Snow Princess. Cream-white .....	24.00	19.00
White Gold. Large cream .....	25.00	20.00
<b>YELLOW</b>		
Gene. Ruffled yellow .....	24.00	19.00
Gold. Golden yellow .....	42.00	35.00
Hopmans Glory. Tall yellow .....	25.00	20.00
Yellow Herald. Early yellow .....	25.00	20.00
Formula Mixture .....	26.00	22.00

Minimum order 500 bulbs, 100 of a variety. 250 or more bulbs of any variety priced at the thousand price. The above prices were in effect during the 1956-1957 season and are subject to change for 1957-1958 season.

## IXIA

Small, star-shaped flowers on wiry stems. Plant bulbs for forcing during October, store at 40° for two months, then force at 50° to 55°. Space bulbs 2 x 2 in. Flowers "go to sleep" at night and hence must be used in cut flower arrangements under bright light.

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery. No. 1 size bulbs. Minimum order, 100 bulbs. \$2.50 per 100; \$15.00 per 1,000.

## GLOXINIAS

AMERICAN-GROWN

Delivery January and February f.o.b. California or West Chicago.

<b>Emperor William</b>	<b>Blanche de Meru</b>	<b>Violacea</b>
<b>Roi des Rouges</b>	<b>Prince Albert</b>	<b>Tigrinia Mixed</b>
<b>Etoile de Feu</b>	<b>Mont Blanc</b>	<b>Mixture</b>
<b>Emperor Frederic</b>	<b>Princess Elizabeth</b>	

Prices on above varieties and mixture:

Size of Tuber	Per 100	Per 1000
1 1/4 to 1 1/2 in. ....	\$17.00	\$150.00
1 1/2 to 2 in. ....	25.00	225.00
2 in. up .....	32.00	300.00

These prices were in effect during the 1956-1957 season and are subject to change for the 1957-1958 season. Minimum order, 100 tubers.

## BELGIAN-GROWN GLOXINIAS

Shipped f.o.b. West Chicago during December or January. F.O.B. New York in case lots, if order is received by us before October 1st. Case lots consist of 3,500 1 1/2 to 2 in., 2,000 2 to 2 1/2 in., and 1000 2 1/2 to 3 in.

<b>Emperor Frederic</b>	<b>Meteor</b>	<b>Princess Elizabeth</b>
<b>Emperor William</b>	<b>Mont Blanc</b>	<b>Tigrinia Mixed</b>
<b>Etoile de Feu</b>	<b>Blanche de Meru</b>	<b>Violacea</b>
<b>King of the Reds</b>	<b>Prince Albert</b>	<b>Queen Wilhelmina</b>
	<b>Mixed</b>	

Prices on above varieties and mixtures:

Size of Tuber	Per 100	Per 1000
1 1/2 to 2 in. ....	\$16.00	\$150.00
2 to 2 1/2 in. ....	23.00	220.00
2 1/2 to 3 in. ....	32.00	300.00

Minimum order 100 tubers. The above prices were in effect during the 1956-1957 season and are subject to change for the 1957-1958 season.

See page 5 for our special resale collection of Begonia and Gloxinia tubers.

## GLOXINIAS—SPECIAL EARLY DELIVERY!

By special arrangement with our Belgian suppliers, we offer air-freight service on Gloxinia tubers for our customers who want to get their Gloxinias started early. Delivery as soon as tubers are ready in Belgium—usually early November. Orders must be in our office by September 1st. The following prices are for 2 in. and up tubers of any varieties listed above. F.O.B. New York City airport. Shipments, of course, can be forwarded from New York by air-freight or express. 250 tubers, \$75.00; 500 tubers, \$145.00; 1,000 tubers, \$290.00. These prices were in effect in the fall of 1956 and are subject to change for fall, 1957 delivery.

## MUSCARI

(Grape Hyacinth)

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery.

	8/9	9/10
	Per 100	Per 1000
<b>Armeniacum. Bright blue</b> .....	\$2.50	\$15.00
<b>Early Giant. Blue</b> .....	2.50	15.00
	2.80	18.00

Minimum order, 100 bulbs of any variety and size.

# MISCELLANEOUS BULBS

## NARCISSUS

**Paper-White.** French-grown bulbs available in August and September. F.O.B. West Chicago or from New York if orders are received by July 1st. Less than case-lot orders all f.o.b. West Chicago. Minimum order, 100 bulbs. These prices were in effect during our 1956-57 season and are subject to change for the 1957-58 season.

	Per 100	Per 1000
13/14 cm. (1,250 bulbs per case) .....	\$6.50	\$58.00
14/15 cm. (1,000 bulbs per case) .....	7.50	62.00

**Grand Soleil d'Or.** The Yellow Paper-White. American-grown bulbs for September delivery. F.O.B. California or West Chicago. Minimum order, 100 bulbs.

	Per 100	Per Case
12/14 cm. (600 bulbs per case) .....	\$5.00	\$22.00
14/16 cm. (400 bulbs per case) .....	7.00	22.00
16/18 cm. (250 bulbs per case) .....	9.00	20.00

## ORNITHOGALUM

Many small white flowers borne in umbels. An interesting plant for spring forcing in the greenhouse in pots or for garden planting in warm climates.

**Thyrsoides Chinchierinchee** (Star of Africa). Flowers white with brown eye. 16-inch stems produce 18 to 30 star-shaped flowers. Greenhouse forcing should be at 55°. Requires rich soil, fertilizer and plenty of moisture. South-African-grown bulbs available in February and March. Shipped f.o.b. West Chicago. 8/10 cm. bulbs.

**Arabicum** (Star of Bethlehem). Flowers much the same as above—white with black centers. Forces well for Easter. Shipped f.o.b. California or West Chicago August to November. American-grown bulbs, size 2 to 2½ in.

**Prices on both above:** \$7.50 per 100; \$65.00 per 1,000. Minimum order, 100 of either variety.

## PEONIES

Our Peonies come from one of the country's leading specialists. Delivery in September, f.o.b. Illinois. Starred (\*) varieties are the preferred kinds for cutting.

### WHITE

* <b>Avalanche</b> (Midseason). White .....
<b>Auten's Pride</b> .....
* <b>Baroness Schroeder</b> (Late). White .....
* <b>Elsa Sass</b> (Late). White .....
<b>Festiva Maxima</b> (Early). White, red center. .
<b>Frankie Curtis</b> (Midseason). White .....
<b>Kelway's Glorious</b> (Midseason). White .....
* <b>La Lorraine</b> (Midseason). Cream-white .....
<b>LeCygne</b> (Early). Milk-white .....
<b>Mattie La Fuze</b> . White tinted pink .....
<b>Marilla Beauty</b> .....
<b>Nick Shaylor</b> .....
<b>Victory</b> .....

### YELLOW

<b>Laura Dessert</b> (Midseason). Yellow .....
--

### RED

* <b>Augustin D'Hour</b> (Midseason). Red .....
<b>Big Ben</b> .....
* <b>Felix Crousse</b> (Midseason). Brilliant red .....
<b>Inspector Lavergne</b> (Midseason). Red .....
<b>Karl Rosenfield</b> (Midseason). Dark red .....
<b>King Midas</b> .....
<b>Onondaga</b> (Midseason). Red .....
<b>Philippe Rivoire</b> .....
* <b>Richard Carvel</b> (Early). Brilliant red .....

WRITE  
FOR  
PRICES

## PEONIES, Continued

### PINK

* <b>Alice Reed Bates</b> (Midseason). Medium pink.
<b>Blanche King</b> .....
<b>Cathie Ann</b> (Late). Medium pink .....
<b>Emma Klehm</b> .....
<b>James Pillow</b> .....
* <b>Lady Kate</b> (Late). Orchid-pink .....
<b>Martha Bulloch</b> (Midseason). Rose-pink ....
<b>Minuet</b> (Late). Pink .....
* <b>Mons. Jules Elie</b> (Early). Deep pink .....
* <b>Mrs. F. D. Roosevelt</b> (Midseason). Shell-pink.
* <b>Sarah Bernhardt</b> (Late). Apple-blossom-pink.
<b>Walter Faxon</b> (Midseason). Salmon-pink ...

WRITE  
FOR  
PRICES

See page 4 for our **Ball Peony Collection for Resale**. 25 each of the 6 leading garden varieties, complete with colored display pictures. An excellent resale counter item.

## RANUNCULUS

A good cut flower item for March and April flowering. Plant bulbs in October in pots or benches. Use a well drained, sterilized soil. Plant 4 x 10 in. Ranunculus are a "cold-house" plant. Night temperatures as near 40° as possible will produce the best flowers. However, temperatures somewhat above the outside temperatures to keep humidity down are important. Be careful in watering not to wet crown of the plant. A crown rot is the most serious enemy of Ranunculus. Our bulbs are West Coast grown.

Our Ranunculus are all of the Tecolote Giant strain. We consider this the outstanding strain for its large double flowers.

<b>Golden Yellow</b>	<b>Sunset</b> (orange shades)
<b>Pink Shades</b>	<b>Red Shades</b>
<b>Rose Shades</b>	<b>White</b>
<b>Light Yellow Shades</b>	

Prices on all above varieties:		Per 100	Per 1000
5/8 to 3/4 in. ....		\$4.00	\$30.00
3/4 to 7/8 in. ....		5.00	40.00
7/8 to 1 in. ....		7.00	60.00
1 in. up .....		9.00	80.00

**Mixture** of all above colors.

5/8 to 3/4 in. ....	3.50	24.00
3/4 to 7/8 in. ....	4.50	35.00
7/8 to 1 in. ....	6.50	53.00
1 in. up .....	8.50	75.00

Shipped f.o.b. California or West Chicago. Minimum order 100 per variety and size. Available September to February.

## SCILLA SIBIRICA (Siberian Squill)

Holland-grown. Shipped (in combination with other Holland bulbs) f.o.b. ports of entry on East Coast, South Coast, West Coast or Great Lakes. F.O.B. West Chicago for smaller or separate shipments. September delivery.

	1st Size		Top Size	
	Per 100	Per 1000	Per 100	Per 1000
<b>Spring Beauty</b> . Large, early bright blue .....	\$4.50	\$36.00	\$5.00	\$42.00
<b>Sky Blue</b> .....	3.25	22.00	4.00	30.00
<b>Alba</b> . White .....			4.25	32.00



# BALL FLOWER SEEDS

## Ball Begonias

FIBROUS ROOTED 30,000 seeds per 1/32 oz.

### DWARF CLASS (4-6 inches)

- **Adeline.** Very free flowering bright pink; dwarf and compact. Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball Deep Rose.** In winter the color is a deep rosy red which gradually fades to a luminous pink during warm weather. *Ball Orig. Seed.* Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball Red.** Medium large flowers of bright true scarlet are freely produced on fairly dwarf plants. *Ball Orig. Seed.* Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.
- **Ball White.** Rather small flowers but very freely produced. *Ball Orig. Seed.* Tr. pkt., \$1.50; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Flamingo.** Bicolor white with pink edge. Tr. pkt., \$1.50.
- **Luminosa Compacta.** Dwarf, free flowering scarlet-red, with green foliage tipped with red. Tr. pkt., \$1.50; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Saga.** Extra dwarf and dense growth. Small, bright red flowers. Tr. pkt., \$1.50; 1/64 oz., \$4.00; 1/32 oz., \$7.50.
- **Snowbank.** Large, glistening white flowers are carried on dense growing plants. The best white. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Dwarf Varieties, Mixture.** Our own formula mixture of dwarf varieties. Tr. pkt., \$1.00; 1/64 oz., \$2.50; 1/32 oz., \$4.50.

### DWARF BRONZE-LEAVED VARIETIES

- **Ball Dwarf Carmen.** Compact habit with rich bronze leaves and light pink flowers. *Ball Orig. Seed.*
- **Frosty.** Pure white flowers contrasting vividly with rich bronze-colored leaves. Dwarf and compact. The first bronze-leaved Begonia with white flowers.
- **Dwarf Indian Maid.** The popular scarlet flowers and bronze foliage of Indian Maid in new, dwarf and compact form.
- **Bronze-Leaved Varieties, Mixture.** Dwarf bronze-leaved plants with red, pink and white flowers. A formula blend. Prices above 4, each: Tr. pkt., \$1.50; 1/64 oz., \$3.50; 1/32 oz., \$6.50.

### INTERMEDIATE CLASS (6-10 inches)

#### ● SPARKLER

Large flowers of brilliant orange-salmon with each petal base a contrasting creamy white. The only true salmon Begonia we have ever seen. *Ball Orig. Seed.* Tr. pkt., \$1.50; 1/64 oz., \$3.25; 1/32 oz., \$6.00.

- **Carmen.** Bright rose-pink flowers with rich bronze leaves. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Indian Maid.** Foliage a deep lustrous bronze with scarlet flowers. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **King of the Reds.** Free flowering carmine-red; vigorous growth. Tr. pkt., \$1.25; 1/64 oz., \$2.50; 1/32 oz., \$4.75.
- **Luminosa.** Very attractive and popular bright red, with green foliage tipped with red. Tr. pkt., \$1.25; 1/64 oz., \$3.00; 1/32 oz., \$5.50.
- **Prima Donna.** Medium rose-pink. Prefer Scandinavia Pink. Tr. pkt., \$1.25; 1/64 oz., \$2.00; 1/32 oz., \$3.50.
- **Salmon Queen.** Salmon shaded rose. Tr. pkt., \$1.25; 1/64 oz., \$2.50; 1/32 oz., \$4.50.
- **Scandinavia Pink.** Very free flowering bright rose-pink. Fine bushy habit. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.
- **Scandinavia Red.** Identical to the above except for its bright red flowers. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

**Scandinavia White.** A white Scandinavia selection. Tr. pkt., \$1.25; 1/64 oz., \$2.75; 1/32 oz., \$5.00.

**White Pearl.** Medium sized white flowers with green leaves, tinged pink; reddish stems. Tr. pkt., \$1.25; 1/64 oz., \$2.50.

**Intermediate Varieties, Mixture.** Made up of the above separate colors. Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$3.75.

### TALL CLASS (Over 10 inches)

**Christmas Cheer.** Large flowered, rose-red.

Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

**Masterpiece.** Extra large flowered, light pink.

Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00.

**Pink Radio.** Extra large flowered, rich rose.

Tr. pkt., \$1.25; 1/64 oz., \$2.25; 1/32 oz., \$4.00.

**Silver Wings.** Extra large, pure white flowers. *Ball Orig. Seed.*

Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

**Tall Varieties, Mixture.** A formula mixture of the above strong growing sorts. Tr. pkt., \$1.00; 1/64 oz., \$2.00; 1/32 oz., \$3.75.

### HYBRID (HETEROSIS) STRAINS

Seed of these varieties is produced by the same method as Hybrid Snaps and Petunias. For absolute uniformity they're unexcelled. Why not try some this year?

- **Pink Profusion.** A vigorous, dense grower with freely produced coral-pink flowers and green leaves with red veins. Did exceptionally well in outdoor trials exposed to full sun and high temperatures. Try this for bedding.
  - **Pink Tausendschon.** Dwarf. Bright pink; closely resembles Adeline and Pink Pearl in habit. *Originator's seed.*
  - **Red Tausendschon.** Same as Pink Tausendschon except for color. *Originator's seed.*
  - **Pink Pearl.** Resembles Adeline in flower size, rich pink color and uniformly dwarf, compact growth. *Originator's seed.*
  - **Red Pearl.** Dwarf. Identical to Pink Pearl except for its Luminosa-red color. *Originator's seed.*
- Prices above 5, each: Tr. pkt., \$1.50.

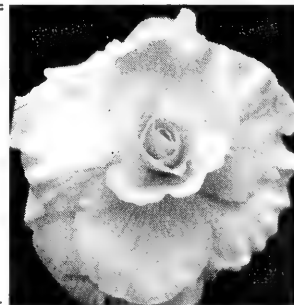
## OTHER BEGONIAS

### TUBEROUS ROOTED SEPARATE COLORS

Superb Camellia-flowered, double strains from one of the world's foremost Tuberous Begonia specialists.

Red Orange Salmon  
Yellow Scarlet Rose  
Copper White

Prices above 8 separate colors,  
each: 1/2 tr. pkt., \$1.75;  
tr. pkt., \$3.00.



- **Tuberous Rooted Double Mixture.** Camellia-flowered. Our flowering trials have consistently produced compact plants with 90% good doubles. Gorgeous colors. 1/2 tr. pkt., \$1.75; tr. pkt., \$3.00.
- **Lloyd's Mixture.** Pendulous. Double flowers, about 2 inches, in shades of scarlet, rose, salmon and white. Fine for hanging baskets. Tr. pkt., \$3.00.

HYBRID indicates genuine 1st generation hybrid.



## Calceolarias

20,000 seeds per  $\frac{1}{32}$  oz. Calceolarias aren't at all difficult to grow from seed if a few simple requirements are met. In sowing use only loose, sterilized material—night temperature  $60^{\circ}$ . The seed is very fine and no soil covering should be used. After seedlings are well up  $50^{\circ}$  will suit them nicely. When large enough to handle, they should go into small bands or Jiffy-Pots—later into 4- or 5-inch pots for finishing. A regular insect control program is essential (aphis will wreck them in no time). We spray regularly with Parathion. From late February on they'll need protection from direct sun. Water only when dry; "wet feet" will cause yellowing of foliage.

### ● HYBRID MIXTURE HYBRID

Brilliant reds and rich yellows (some spotted with contrasting maroon) make up this outstanding blend of genuine F<sub>1</sub> Hybrids—the first ever offered in Calceolarias. Flowers are medium in size, but produced in great cloud-like heads. Because of the exceptional vigor of this strain, it should be finished in 6-inch pots rather than 5's.  $\frac{1}{2}$  tr. pkt., \$1.75; tr. pkt., \$3.00.

**Rugosa Mixture.** Large heads of quite small flowers in a brilliant color mixture. Tr. pkt., \$1.25.

● **Ball Multiflora Nana Mixture.** Large heads of medium sized flowers in brilliant reds, yellows and intermediate shades. The dwarf plants are wiry in growth with small durable leaves which make for ease in handling and shipping. *Ball Orig. Seed.* Tr. pkt., \$2.00;  $\frac{1}{4}$  oz., \$4.00;  $\frac{1}{64}$  oz., \$7.20;  $\frac{1}{32}$  oz., \$13.00.

**Triumph Strain.** Medium large flowers; mostly bright reds and yellows. Tr. pkt., \$1.25;  $\frac{1}{64}$  oz., \$2.75;  $\frac{1}{32}$  oz., \$5.00.

● **Extra Early Tigered.** Solid heads of medium large flowers on dwarf plants; good color range. The outstanding feature of this Extra Early Tigered strain is its earliness. It blooms nearly a month before other varieties, therefore costs you less to grow. *Ball Orig. Seed.*

Tr. pkt., \$2.00;  $\frac{1}{4}$  oz., \$4.00;  $\frac{1}{64}$  oz., \$7.20;  $\frac{1}{32}$  oz., \$13.00.

● **Grandiflora Dwarf Mixture.** Extra large (2-2½ in.) flowers in unusual and striking colors are carried on fairly dwarf plants. Tr. pkt., \$1.25;  $\frac{1}{64}$  oz., \$2.75;  $\frac{1}{32}$  oz., \$5.00.

## Cinerarias

Colorful Cinerarias offer a welcome spring change in your customer's diet of the usual winter pot plants, and if the smaller leaved varieties like Cremer's and Festival are used they'll take less bench space, cost less to grow. Finish some in 4's as well as 5's for those of your customers who want less expensive plants.

Seed is usually sown from late July through September for winter and spring pot plants. Transplant the seedlings to small plant bands or Jiffy-Pots as soon as they can be handled. Before they become root-bound, shift into their final sized pot. While this method calls for a little care in preventing over-watering until they make new roots, it produces better results than handling them in small pots.

● **Cremer's Prize Strain.** (Our own reselected stock.) 6,300 seeds per  $\frac{1}{32}$  oz. Extra large heads of medium small flowers in widely varied color assortment; about half light-eyed. Small foliage. Tr. pkt., \$1.75;  $\frac{1}{64}$  oz., \$2.50;  $\frac{1}{32}$  oz., \$4.50;  $\frac{1}{16}$  oz., \$8.25.

● **Dwarf Erfurt Mixture.** 140,000 S. Dense heads of medium sized flowers in a fine color balance, including copper, salmon, and maroon in addition to the usual Cineraria colors. Habit is compact and very uniform. Tr. pkt., \$1.50;  $\frac{1}{64}$  oz., \$2.50.

**Dwarf Giant Exhibition Mixture.** Extra large flowers on medium dwarf plants. For exhibition work only. Tr. pkt., \$1.50;  $\frac{1}{64}$  oz., \$2.75.

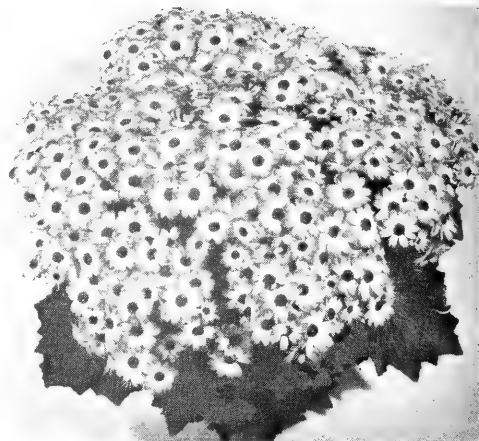
**Grandiflora Dwarf Mixture.** 3,500 seeds per  $\frac{1}{32}$  oz. Large flowers in rich colors with contrasting large white eyes. Dwarf growth. Tr. pkt., \$1.00;  $\frac{1}{64}$  oz., \$2.00;  $\frac{1}{32}$  oz., \$3.75.

**H. & S. Super Giants Superb Mixture.** Similar to Dwarf Giant Exhibition Mixture. A fine strain in a complete color range. *Originator's seed.* Tr. pkt., \$1.50;  $\frac{1}{64}$  oz., \$2.50;  $\frac{1}{32}$  oz., \$4.50;  $\frac{1}{16}$  oz., \$8.50.

● **Multiflora Nana, Gold Center.** 6,300 seeds per  $\frac{1}{32}$  oz. Attractive medium small, solid-colored flowers with yellow anthers. Good shipper. Tr. pkt., \$1.25;  $\frac{1}{64}$  oz., \$2.25;  $\frac{1}{32}$  oz., \$4.00.

● **Siter's Rainbow Strain.** 3,500 seeds per  $\frac{1}{32}$  oz. Immense heads of medium large, mostly white-eyed flowers. Tr. pkt., \$2.00;  $\frac{1}{64}$  oz., \$2.75;  $\frac{1}{32}$  oz., \$5.00;  $\frac{1}{16}$  oz., \$9.00.

**Stellata Mixture** (Star type). Small, free flowering strain. 24 to 30 in. tall. Tr. pkt., \$1.00;  $\frac{1}{32}$  oz., \$2.50.



CINERARA, FESTIVAL

● **Festival.** This is our own small-leaved strain requiring a minimum of bench space. Plants are bushy and compact with even heads of medium sized, mostly white-eyed flowers in a brilliant color range. We're sure this strain is unexcelled. *Ball Orig. Seed.*  $\frac{1}{2}$  tr. pkt., \$1.75; tr. pkt., \$3.00;  $\frac{1}{64}$  oz., \$4.50;  $\frac{1}{32}$  oz., \$7.50;  $\frac{1}{16}$  oz., \$13.00.

● **No. 1 Mixture.** Consists of Cremer's Prize Strain and Siter's Rainbow Strain in equal proportions. Tr. pkt., \$1.50;  $\frac{1}{64}$  oz., \$2.50;  $\frac{1}{32}$  oz., \$4.75.

● **No. 2 Mixture.** Contains  $\frac{1}{2}$  Cremer's Prize Strain and  $\frac{1}{4}$  each Siter's Rainbow Strain and Multiflora Nana, Gold Center strain. Tr. pkt., \$1.50;  $\frac{1}{64}$  oz., \$2.50;  $\frac{1}{32}$  oz., \$4.75.

● **"Vivid" Formula Mixture.** 162,000 S. A complete mixture of solid colors (without "eyes"). Dwarf with well-rounded heads and fairly small leaves. Blooms about a month later than other strains. Tr. pkt. (1000 seeds), \$1.75;  $\frac{1}{64}$  oz., \$2.75;  $\frac{1}{32}$  oz., \$5.00. Also available in the following separate colors at the same price: **White, Bright Red, Brick-Red (Matador), Light Blue, Mid-Blue, Pink Shades and Salmon.**

# Calendulas

## GREENHOUSE VARIETIES (3,000 seeds per oz.)

Start in July or August and grow cool—not over 45° nights during fall and winter. They need regular disbudding and prefer ground beds; otherwise they are very easy and inexpensive to handle.

- **Ball Imp. Long Orange.** Bright orange with light eye.
- **Ball Masterpiece.** Deep glowing orange with dark eye.
- **Ball Lemon Queen.** Lemon-yellow with dark brown eye.
- **Ball Gold.** Deep golden yellow with light eye.

Prices above 4, each:

Tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$9.00.

**Ball Formula Mixture.** Carefully made up of our named varieties with fully half orange.

**Ball Art Shades Mixture.** Contains many original and unusual shades and interesting bicolors.

Prices above 2, each:

Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.40; 4 ozs., \$7.20.

# Gloxinias



## ● PANZER SCARLET—Originator's Seed

Pictured above. This deep, bright velvety red is the color in Gloxinias—Mr. Panzer produces many thousands of Gloxinias for shipping and offers this color only. The originator's strain has been re-selected by Mr. Panzer and is now offered with assurance that it has no peer in commercial Gloxinia seed strains. Mr. Panzer's full cultural directions sent with each packet.

Tr. pkt., \$3.00; 5 tr. pkts., \$13.50.

**Tigered & Spotted.** Very attractive mixture of colors.

Tr. pkt., \$1.25; 6 pkts., \$6.00.

- **Formula Mixture.** Made up of choice named separate color varieties. All colors except yellow are represented including bicolors and spotted types. Tr. pkt., \$1.25; 6 pkts., \$6.00.

**Scarlet** (Etoile de Feu).

**White** (Mont Blanc).

**Scarlet & White** (Emp. Frederick).

**Violet** (Prince Albert).

**Violet & White** (Emp. William).

**Rose Sensation**

Prices above 6, each: tr. pkt., \$1.25; 6 pkts., \$6.00.

**COLLECTION** of 1 tr. pkt. each above 6 separate colors, \$6.00.

## IMPORTED FLEXIBLE-LEAVED STRAIN

This new strain is reported by its originator to have softer and more flexible leaves than the ordinary type, permitting it to be handled and packed without danger of leaf breakage.

**Blood Red**

**Blue**

Prices above 2, each: tr. pkt., \$2.00; ¼ oz., \$6.00.

# Ball Cyclamen



We conduct regular and extensive flowering trials of Cyclamen strains from the world's leading seed producers in addition to examining these strains, as they are grown in Europe and America.

Our conclusion is that no one Cyclamen seed specialist excels in all varieties. As a result, the Ball strains include only those in which each grower (according to our observation—not the grower's claim) excels.

No. 1 **Dark Blood-Red.**

● No. 2 **Bright Red.**

● No. 3 **Pure Rose** (Rose of Aalsmeer). Medium salmon-pink.

No. 4 **Soft Rose with Carmine Eye.** Lavender-rose; wine-red eye.

No. 5 **White with Carmine Eye.**

● No. 6 **Pure White.** Large flowers.

● No. 7 **Bonfire.** Brilliant scarlet-salmon.

No. 8 **Salmon-Scarlet** (America-Imp).

No. 9 **New Salmon-Rose Imp.**

● No. 10 **Glory of Wandsbek** (Perle of Zehlendorf). Bright deep salmon.

● No. 11 **Rose of Zehlendorf.** Light salmon.

No. 12 **Orange Beauty.** Orange-vermilion.

No. 13 **Rococo Mixture.** Fringed flowers; unusual shapes and markings.

No. 16 **Saffron-Red, Silver Edged.**

● No. 17 **Striped Mixture.** Unusually showy and attractive.

No. 18 **Mozart.** Deep pink.

No. 19 **Lavender.** Bright fuchsia-orchid.

No. 21 **Pink Pearl.** Salmon-pink.

No. 22 **Baardse Wonder.** Salmon with white border.

No. 24 **Roseum Oculatum.** Light pink, salmon eye.

No. 26 **Victoria.** Fringed white, tipped red.

No. 50 **Ruffled Lavender.**

No. 51 **Ruffled Salmon.**

No. 52 **Ruffled White.**

No. 53 **Ruffled Dark Red.**

● No. 60 **Ruffled Mixture.**

Prices last 26, each: 100 seeds, \$2.50; 1,000 seeds, \$20.00.

● No. 30 **Mixture** of above colors:

100 seeds, \$2.00; 1,000 seeds, \$15.00.

## VOGT'S DOUBLE-FLOWERED STRAIN

**Admiration.** Salmon-rose with shaded eye.

**Mixture.**

Prices above 2, each: 100 seeds, \$3.75; 250 seeds, \$7.75; 500 seeds, \$14.50.

For Perennial Cyclamen see page 29.

**DISCOUNTS**—In addition to our regular cash discounts, the following special discounts are allowed on Cyclamen seed: 250 of a variety at 1,000 rate (except Vogt's); 10,000 to 25,000 seeds, any assortment, 5%; over 25,000 seeds, 10%.

# Annual Larkspur

**For Early Summer Cut Flowers Outdoors:** If a sowing is made outdoors by growers in the near South 6 or 7 weeks before the ground freezes, plants well enough established to winter over in all except the most severe seasons can be produced. In the North sowing should be done as early in the spring as the soil can be worked—just as soon as the frost is out of the ground.

**Under Glass—Spring Flowering.** Well started, 3-inch, banded or potted plants should be ready, and are produced by a September or later sowing. Space at least 12 x 12 in. on ground beds; 10 x 10 in. on raised beds should be ample. Night temperature 45-50°.

**Germination:** Larkspur seed doesn't germinate well in high temperatures. If it must be sown when hot, better do so in flats set under a bench or in a cool shed. It requires 2 to 3 weeks to come through, sometimes longer.

## "7 BEST"

- **Salmon Supreme.** Medium salmon-rose; heavy, fully double spikes.
- **Dark Blue Supreme.** The best deep violet-blue.
- **Lilac Supreme.** The best clear lavender.
- **White Supreme.** The most vigorous white according to our trials.
- **Regal Salmon-Pink.** A shade lighter than Salmon Supreme. Very nice.
- Prices above 5, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.
- **Super Majestic Light Blue.** An excellent light blue; outstanding.
- **Brilliant Rose.** Deepest rose of all.
- **7 Best Mixture.** Blended by formula from these 7 varieties.
- Prices above 3, each: tr. pkt., 30c; ½ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.
- COLLECTION:** One tr. pkt. each of above 7 separate color varieties for \$2.35.

## SUPER MAJESTIC

**Deep Salmon-Pink.** Medium deep rose.

**Lavender.** Beautiful lavender-mauve.

● **Light Blue.** See 7 Best above.

**Rose-Pink.** Excellent deep rose.

**Rosy Mauve.** Rich dark lilac shade.

**White.** Long-stemmed pure white.

**Mixture** of above and other colors.

Prices above 7, each: tr. pkt., 30c; ½ oz., 90c; 1 oz., \$1.60; 4 ozs., \$5.25; 1 lb., \$16.00.

## SUPREMES

● **Dark Blue Supreme.** See 7 Best, above.

● **Lilac Supreme.** See 7 Best, above.

**Rose Supreme.** Clear deep rose.

● **Salmon Supreme.** See 7 Best, above.

● **White Supreme.** See 7 Best, above.

**Supreme Mixture.** All Supreme colors.

Prices above 6, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

## HYACINTH-FLOWERED

Produces one long non-branching spike. Early and non-shattering. For greenhouse use only. Space about 4 x 5 inches.

**Dark Blue**

**Lavender**

**Pink**

**Purple**

**White**

**Mixed**

Prices above 6, each: tr. pkt., 50c; ¼ oz., \$1.00; 1 oz., \$3.00; 4 ozs., \$10.00.

## REGAL TYPE

**Regal White.** Fine, compact spikes.

● **Regal Rose.** Rich deep rose with fine, heavy spikes and large, double florets.

● **Regal Salmon-pink.** See 7 Best, above.

Prices above 3, each: tr. pkt., 40c; ½ oz., \$1.00; 1 oz., \$1.80; 4 ozs., \$6.00; 1 lb., \$18.00.

# Primula Malacoides

12,000 seeds per ½ oz. Baby Primroses, as they are often called, provide the grower with one of his most valuable sources of colorful material for Valentine's Day and early spring combination boxes. You'll find they move readily as pot plants, too. 3's and 4's are the most profitable sizes, and they can be had from late January on by sowing from August to October.

Malacoides Primulas are of easy culture if they are grown in an airy, cool house (45° night temperature) and not allowed to get dry between waterings. Equally important is the avoidance of fertilized soil in the seed flat or early stages of growth.

● **Brightness ~~Hybrid~~ Hybrid.** The first F<sub>1</sub> Hybrid Primula ever offered! Flowers are a rich, luminous, deep rose and, as observed in our trials, Brightness was "head and shoulders" above any other variety in uniformity, vigor and profusion of blooms. A genuinely outstanding Primula. Tr. pkt., \$1.25.

● **Glory of Riverside Imp.** An excellent variety with freely produced, beautiful salmon-rose flowers.

**White Giant.** Fine pure white; large flowers and heavy stems.

**Brilliance Imp.** Large flowers of rich wine-red.

**Mrs. Eriksson of Riverside.** Large flowers of glowing rose-red on compact plants of medium height.

**Ball Lavender.** Bright orchid-lavender.

**Mixture.** Our own balanced formula mixture.

Prices above 6, each:

Tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.25.

● **Red Velvet.** Newly opened flowers are a bright coral-rose changing to deep, velvety crimson-red as they mature. Tr. pkt., \$1.50; ¼ oz., \$2.50.

# Primula Obconica

4,000 seeds per ½ oz. These colorful and showy plants still provide the grower with one of his best sources of mid-winter pot plant material. In spite of their effect on some people's skin, they continue to be widely grown and called for.

Sowings made during June and July will produce nice pot plants for late winter and spring. We carry them along in 2½-inch bands from the seed flat, shifting when ready to their final size pot. Important points are a soil that drains readily and a cool, well shaded location during the summer. Fasnabender's Red and Mohnstein's Red are the preferred reds; Berlin Rose is the best pink. Blue and white are wanted in smaller quantities.

● **Fasnabender's Red.** An outstanding, extra large flowered deep crimson-red.

**Better Days.** Bright carmine-red.

**Mohnstein's Red (Atrosanguinea).** Popular deep red.

● **Mueller's Berlin Rose (Mueller's Rosea).** Soft medium rose.

**Salmon-Rose (Lachsrosa).** Salmon-rose shades.

**Sky-Blue (Coerulea).** Clear mid-blue.

**Violet-Blue.** Deep violet.

**White.** Large, clean flowers.

**Wyaston Wonder.** A special selection of this famous English variety. Vigorous growing, large flowered bright crimson.

● **Formula Mixture.** Carefully blended from above colors.

Prices above 10, each:

Tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.00.

## PRIMULA CHINENSIS

(Chinese Primula)

18,000 S. A popular class with many retail growers. Very colorful and showy. Sow from March on for Christmas and later.

**Kardinal.** Vivid, intense orange. Tr. pkt., \$1.50; ¼ oz., \$5.00.

**Special Mixture.** A choice assortment of colors.

Tr. pkt., \$1.25; ½ oz., \$3.75.

~~Hybrid~~ indicates genuine 1st generation hybrid.



# Ball COLUMN Stocks

(NON-BRANCHING)

16,000 S. The most important points in growing good greenhouse Stocks are: (1) plant only in clean soil to avoid root-rot (2) grow them cool—not over 50° nights. A spacing of 3 x 6 inches is ample for good quality and they may be safely sown in our latitude from July 15 to February 15. Later sowings may come blind. Constant breeding and selection maintain a uniformly high percentage of doubles in our strains, which may be further increased if the largest seedlings are selected in planting or thinning.

## WHITE

### ● No. 25 MINARET

This fine white combines the close-spaced spikes of No. 16 with a larger, longer stem which makes it quite valuable to cut-flower growers.

**Pacific White.** A pure white with large, well spaced florets. A bit later than No. 16 but earlier than Avalanche. Recommended for both greenhouse and outdoor use.

● **No. 16 Ball White—Medium Tall.** This early pure white is the most popular variety on our entire list.

**No. 99 Ball White.** Discontinued—superseded by Minaret.

**White Giant.** Good long-stemmed white for outdoor growing. We prefer our No. 16 Ball White for greenhouse use.

**Gardenia, Imp.** Pure white. Branches somewhat. A fine outdoor strain.

**No. 5. Ball Dwarf White.** An ideal pot plant variety.

● **Avalanche.** Finest white for outdoor growing; also excellent for greenhouse use although later than No. 16.

## LAVENDER, BLUE and PURPLE

● **No. 1 Lilac-Lavender Improved.** Early blooming. Silvery lilac. Good stems with long flower spikes.

**No. 3 Ball Blue Improved.** Deep bluish lavender; long spikes.

● **No. 21 Purple Heart.** Long-stemmed and large-flowered, bright violet-purple.

## PINK, ROSE and RED

● **Pacific Pink.** A bright, luminous salmon-rose-pink without the bluish or orchid cast of other pinks and roses. Somewhat later than most Column Stocks, and is at its best in spring.

● **No. 22 Ball Supreme.** A long-stemmed, vigorous growing variety with fine, heavy spikes of rich silvery rose.

**No. 11 Ball Pink.** Medium pink; somewhat lighter than No. 22.

**No. 14 Ball Rose.** An early flowering, fairly deep rose-pink. Darker in color than Supreme No. 22.

**No. 9 Chamois-Pink.** A warm rosy buff color. Good stems and flower spikes.

**No. 7 Malmaison Pink, Improved.** Long stems and spikes of soft shell-pink. A popular color.

**No. 6 American Beauty.** Rich deep carmine-rose.



Left to right, five popular non-branching varieties. Lilac-Lavender, Minaret, Purple Heart, Ball White No. 16, and Ball Supreme No. 22.

● **No. 8 Ruby Improved.** A brilliant scarlet-crimson without the purple cast of other reds.

### U. S. D. A. DOUBLE PINK

Improves the Hansen dark-leaved single, light-leaved double strain. Light-leaved doubles may be selected in seedling stage. In our greenhouse trials stem length was greater than Hansen's but not as long as regular Columns. Doubles retain some light leaf color in blooming stage.

## MISCELLANEOUS VARIETIES

● **No. 20 Ball Apricot.** Long spikes of rich apricot tinged pink.

**No. 24 Deep Apricot Improved.** Darker than No. 20.

**No. 17 Gold Standard.** Creamy ivory-yellow.

### ● No. 26 BUTTERSCOTCH

This fine, creamy yellow is a definite improvement over present strains in stem length, flower size and color.

**Yellow Wonder.** Popular ivory-yellow for outdoor growing. Branches slightly.

**No. 10 Mixture.** Our own formula mixture.

## BRANCHING STOCKS GIANTS OF CALIFORNIA

Stronger growing than the Bismarcks.

**Golden Gate.** Soft, creamy yellow.

**Pacific.** Fairly dark lilac-mauve.

**Redwood.** Bright ruby-red.

**Santa Barbara.** Chamois or buff.

● **Santa Maria.** Best branching white.

**Tahoe.** Clear lavender.

● **Yosemite.** Rich rose-pink.

Prices above 7, each:

Tr. pkt., 40c; ¼ oz., \$1.40; 1 oz., \$4.75.

Mixture of all colors in this class.

Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$4.25.

**PRICES:** All above Stocks, except Branching Giants of California, each: ½ tr. pkt., 75c; tr. pkt., \$1.25; ¼ oz., \$2.75; ½ oz., \$5.25; 1 oz., \$10.00.

**COLLECTION:** 1 tr. pkt. each of the 6 Best (dotted) varieties, for \$6.75.

The dot (●) indicates varieties most dependably satisfactory in our experience and observation.

# Winter Sweet Peas

350 seeds per oz.

## ZVOLANEK'S MULTIFLORAS

### Originator's Seed

These fine varieties are the result of years of painstaking selection on the part of William Zvolanek, veteran California Sweet Pea breeder. They are unusually free flowering and **long-stemmed** with many stems carrying **5 and 6 flowers** instead of the usual 3 and 4. Sow from mid-July through November for blooms November through May.

**Blue Wonder.** Fine, clear medium blue flowers on very long, strong stems.

**Deep Rose.** Deep, bright rose; fine for spring. Long stems, and vigorous.

#### • GEO. J. BALL

Named for the late Geo. J. Ball, this new, deep coral-rose is one of the finest Multiflora Sweet Peas.

**Giant Lilac.** Bright mauve, same color as Triumph. Large flowers on extra long, heavy stems. Strong growth.

• **Lavender.** Orchid-lavender, near Twilight in color. A strong grower with extra long stems.

**Light Rose-Pink.** Almost flesh-pink in color. Large flowers on long stems.

**Orange-Cerise.** Extra large flowers on long stems. A bright and striking color.

**Red.** Christmas red.

• **Rose.** Extra large, medium rose flowers on extra long, heavy stems. Vigorous.

• **Salmon-Pink.** Large, medium rose-pink flowers with salmon cast. Stems are extra long, but not as heavy as the other varieties in this class.

**Whirlwind.** Large, light rose flowers on long stems.

• **White.** Pure white. Long, strong stems.

**Multiflora Mixture.** A complete color assortment.

Prices above 13 varieties, each: ½ oz., \$1.10; 1 oz., \$2.00; 4 ozs., \$6.65; 1 lb., \$20.00.

## STANDARD WINTER VARIETIES

These varieties are at their best during winter and early spring from a July to September sowing. While we prefer the Spring Flowering for late greenhouse planting, the Winter class does flower earlier and in some sections is preferred even for outdoor planting. The 12 best varieties are indicated by a (●).

### WHITE

**Ball White.** Long-stemmed pure white; white seeded.

• **Cascade.** Earliest large flowered white; white seeded.

**Hope.** Fine black seeded white.

**White Harmony.** Similar to Hope; black seeded.

Prices above 4, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

# Spring Peas

## CUTHBERTSON STRAIN

This class is midway in blooming date between the Winter and Summer types, and is the preferred kind for spring greenhouse flowering. Don't sow before October for this purpose. They are also widely planted for outdoor use, being a week or two earlier than the Summer class.

• **Billy.** Cerise-rose.

• **Carol.** Clear pink.

**Doris.** Cherry-rose.

**Evelyn.** Salmon-pink.

• **Lois.** Light pink.

**Coline.** Vivid scarlet.

• **Jimmy.** Deep cherry-red.

• **Frank G.** Rosy lavender.

**Jessie.** Lavender-mauve.

• **Tommy.** Mid-blue.

**Daisy.** (New). Large white.

• **Mixture.**

Prices above 12 Cuthbertson varieties, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$5.00.

## LAVENDER, BLUE and PURPLE

• **Ball Blue Supreme.** Rich mid-blue. Large flowers and a good producer.

**Harmony.** Early flowering lavender.

• **Rhapsody.** Extra large flowered, deep rosy lavender.

**Top Hat.** Deep bright violet-blue.

• **Triumph.** Long-stemmed, rich lilac-mauve; very well liked.

• **Twilight.** A bright clear lavender.

## PINK, ROSE and SALMON

• **Ball Rose Queen.** Extra long-stemmed and large-flowered clear rose-pink. One of the finest winter varieties.

• **Ball Rose Supreme.** Large wavy flowers of bright silvery rose. Good stems and free flowering.

• **Ball Salmon.** Fairly deep salmon-pink; an excellent producer.

**Daphne.** Soft salmon-pink on cream. Large flowered.

• **Hiawatha.** Strong growing, large flowered deep rose.

**Laddie Imp.** Long stemmed, fairly light rose-pink.

**Mother Machree.** Large coral-rose flowers; semi-duplexed.

**New Ball Rose.** Free flowering, bright rose.

## ORANGE and RED

• **Ball Orange Supreme.** Bright, clear orange with no rose shading.

• **Fiesta.** Brilliant scarlet-cerise; the finest winter red.

**Sparks.** Bright poppy-scarlet.

• **Treasure Island.** Large, wavy flowers of golden orange.

Prices all above standard winter varieties, each: ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

## MIXTURES

• **12 Best Mixture.** Our own formula mixture of the 12 best. ½ oz., 35c; 1 oz., 55c; 4 ozs., \$1.65; 1 lb., \$6.00.

## COLLECTIONS

½ oz. each of the above "12 Best" (dotted) named standard winter varieties for \$3.80.

1 oz. each of the above "12 Best" (dotted) named standard winter varieties for \$6.10.

## ZVOLANEK'S FLORIBUNDAS

### Originator's Seed

Developed from the sensational Multifloras, the Floribunda Class is a spring flowering Sweet Pea. Don't sow before October for this purpose. It branches freely with long, strong stems, as many as 6 and 7 blooms, and has other fine characteristics of the Multiflora line.

Our last season's trials definitely indicate that the Floribundas are superior to other strains for spring greenhouse or outdoor use in our locality.

• **Pure White**

**Purple**

**Lilac**

**Carmine-Rose**

• **Lavender**

• **Rose-Pink**

• **Light Pink**

• **Mid-Blue**

• **Scarlet**

**Mixture**

Prices above 10, each: ½ oz., 85c; 1 oz., \$1.50; 4 ozs., \$5.00; 1 lb., \$18.00.

# Planning Your Snapdragon Crop

## WHAT ABOUT SINGLE STEM CROPS?

Each year more growers are turning to single stem crops. Some are growing their Snaps this way exclusively; others find it fits nicely in rotations with other crops—or with a crop of pinched Snaps. The advantages are quite clear. Single stem crops are more uniform, of better over-all quality, and the crop cuts out 2 to 4 weeks sooner than a pinched crop, thus saving costly greenhouse time

## WHEN TO SOW?

Two growers can sow seed for winter Snap crops on the same day—and flower their crops a month apart. That points up the joker in tables such as the one that follows here. The flowering dates listed below will come out consistently within a week or two at the most on our own place. They are based on direct benching of all crops, use of raised benches throughout, carrying 50° nights, except for the last month or so at 45-47°.

**Growers who have ground beds, who carry cooler temperatures, and who pot or band their seedlings should sow 2 to 4 weeks or more earlier than the sowing dates given below. Note that May sowings flower in a minimum of time and each sowing afterwards requires a longer growing period until November, at which time this trend reverses itself.**

### SINGLE STEM

Sow	Bench Seedlings	Flower	Spacing
Aug. 15	Sept. 3	Jan. 15	3 x 6 in. (4 x 5 for top quality. Also some varieties have thicker, heavier foliage — need more space).
Aug. 23	Sept. 11	Feb. 1	
Sept. 1	Sept. 25	Feb. 15	
Sept. 10	Oct. 4	Mar. 1	
Sept. 23	Oct. 17	Mar. 15	
Oct. 7	Nov. 1	Apr. 1	3 x 5 ins.
Oct. 22	Nov. 16	Apr. 15	
Dec. 1	Jan. 6	May 1	
Dec. 20	Jan. 25	May 15	
Jan. 10	Feb. 15	June 1	
Feb. 1	Mar. 1	June 15	3 x 4 ins. (3 x 5 for Rockwood varieties).
Mar. 1	Mar. 25	July 1	
Apr. 1	Apr. 23	July 15	
Apr. 23	May 15	Aug. 1	
May 7	May 25	Aug. 15	
May 23	June 10	Sept. 1	3 x 5 ins.
June 7	June 25	Sept. 15	
June 23	July 11	Oct. 1	
July 7	July 25	Oct. 15	
July 15	Aug. 3	Nov. 1	
July 20	Aug. 7	Nov. 15	
July 25	Aug. 12	Dec. 1	
Aug. 1	Aug. 19	Dec. 15	
Aug. 5	Aug. 23	Jan. 1	

Using the above table it's entirely possible to work out a practical year 'round schedule of 3 crops a year. Snaps also work nicely into rotations with Mums; Iris, lighted Asters, bedding plants, etc.

and space.

These factors all add up to **more money** in your pocket at the end of the season. The single stem method is especially worth while for the critical flowering period in midwinter. During this season of limited sunlight, Snap plants have difficulty manufacturing enough food to make 3 or 4 good spikes per plant. They **can** produce **one good** spike. This is also an important point to consider.

### PINCHED CROPS

Sow	Bench Seedlings	Flower
July 5	July 23	Nov. 1
July 10	July 28	Nov. 15
July 15	Aug. 2	Dec. 1
July 20	Aug. 7	Dec. 15
July 25	Aug. 12	Jan. 1
Aug. 1	Aug. 19	Jan. 15
Aug. 10	Aug. 28	Feb. 1
Aug. 20	Sept. 8	Feb. 15
Sept. 1	Sept. 25	Mar. 1
Sept. 10	Oct. 4	Mar. 15
Sept. 20	Oct. 14	Apr. 1
Oct. 5	Oct. 29	Apr. 15
Nov. 10	Dec. 1	May 1
Dec. 3	Dec. 23	May 15
Jan. 1	Feb. 5	June 1
Jan. 15	Feb. 20	June 15

7 x 8 ins.  
Normal spacing, four stems per plant. Some growers allow 8 x 8 on deep ground beds for Feb.-March crops.

## VARIETIES

The ever-present question of variety preference is often a matter of personal likes or dislikes. In an attempt to avoid this pitfall, we've based these recommendations on not only our own observations but on reports from growers everywhere. Particular emphasis has been given to opinions expressed in trade gatherings where informal polls have been taken. The following varieties have all been widely and successfully grown under single stemmed culture as well as for pinched crops:

**YELLOW:** War Admiral, Golden Spike (for spring), Seabiscuit.

**WHITE and IVORY:** Snowman, White Knight, Citation, Spartan White, Rockwood's Crystal White (the latter for late spring and summer only).

**PINK:** Pink Ice, Christina, Wintergreen, Hercules.

**MEDIUM ROSE:** Rosanna, Showgirl, Jackpot, Libby.


**DEEP ROSE:** New Times.

**BRONZE:** Gallant Fox, Barbara, Cavalcade.


**RED:** Navajo, Cherokee.

**LAVENDER:** Lavender Lady, Bold Venture.


## CHECK LIST FOR GERMINATION TROUBLES




**SUFFICIENT MOISTURE?**  
ABSOLUTE NECESSITY —  
UNIFORM — NOT EXCESSIVE.




**CORRECT TEMPERATURE?**  
— USUALLY 65°-70° —  
SOME PLANTS COOLER.




**SEEDS COVERED TOO DEEP?**  
AIR IS AS ESSENTIAL AS HEAT  
AND MOISTURE!!! FINE SEEDS  
REQUIRE LITTLE OR NO COVER  
— WILL "WASH" INTO SOIL.



**ANTS-MICE — MORE  
OFTEN RESPONSIBLE  
THAN PEOPLE GENERALLY  
REALIZE — EVEN FLORISTS!**



**CLEAN, DISEASE-FREE  
STERILIZED MEDIUM?**



**YOUR SEEDSMAN IS ONLY  
HUMAN — DOES HIS BEST.  
IF YOU THINK HE IS AT  
FAULT, WRITE AND GIVE  
HIM A CHANCE TO HELP!**

ABOVE ALL, REMOVE SEEDLINGS TO COOL AIR AND PLENTY OF LIGHT AS SOON AS SPROUTED — — BEST DAMP-OFF PREVENTATIVE!

# Tips On Snap Culture

## Soils

Good Snaps can be grown in a wide variety of soils. As a general rule any soil that will grow good Mums will grow good Snaps. The really important point is that it contain **plenty** of organic matter. While this may take the form of manure, be sure it is well rotted. As a matter of fact, peat is generally preferred because the bacteria which are necessary to decay manure rob the soil of essential plant nutrients.

The amount of organic matter which a soil needs depends upon its basic structure. Heavy, clay-like soils will need more than loose, sandy sorts. If an average good garden or field soil is to be used, one part of organic matter should be incorporated with each two or three parts of soil. To this should be added three pounds of 20% superphosphate per 100 square feet of bench area before steaming. Other than this we prefer to depend upon regular feedings as soil tests indicate their need, rather than to load the soil with too much fertilizer to start with.

## Sterilizing

We like to steam sterilize our soil at least once a year, too. It cleans up disease organisms, kills soil-borne weed seeds and insects and tends to improve the soil's physical condition. Low (8 to 10 lbs.) steam pressure does the job for us. Holding soil temperatures at 180° for half an hour after this temperature has been reached is all it takes. After sterilizing, a heavy leaching with clear water will tend to prevent an excessive build-up of nitrates which might injure young roots. Terraclor will prove useful in treating soils where steam isn't available.

## Seed Sowing

Vermiculite, peat, or soil and peat mixtures all make satisfactory materials for germinating Snap seed. We like to have the flats well watered before sowing, which may be done either broadcast or in shallow rows. We prefer the latter since it permits better aeration after the seedlings get started. No additional soil covering is needed for this fine seed—a light misting with a fine spray will settle it into the soil. If weather is hot or windy, flats should be protected with cheesecloth or paper shade until well up, then they will enjoy full light and a cooler, airy location. Seeds should germinate in 3 or 4 days in summer, 7 or 8 days in winter in a night temperature of 60°.

## Planting

If bench space is available, we like to bench seedlings direct—less labor and better growth. It works nicely even in hot weather if the soil is moist before benching, seedlings are planted shallow, and misted within minutes of benching and regularly until new roots show.

In regard to the matter of spacing, we believe 3 x 6 inches is the most economical and profitable for a winter single stem crop

with 3 x 5 inches being enough for late spring and summer crops. We space our pinched crops 7 x 8 inches, finding this satisfactory for most varieties. If you are obliged to transplant, band or pot seedlings, do not pinch them until plants have been benched and have taken hold. To pinch before benching will usually result in only two top breaks rather than the four or so that each plant should produce. We like to pinch when plants are about eight inches high, leaving three good pairs of leaves.

## Watering, Feeding, Temperatures

Watering Snaps, as with any other crop, is largely a matter of good judgment. Small plants in dark winter weather may not need watering for weeks, whereas a heavy crop in spring may need attention every other day. A good rule is: don't water until the soil begins to dry, then give it enough to soak through to the bottom.

We depend on regular weekly soil tests to determine when to feed. In winter we like to maintain the following nutrient levels: nitrates 20-25 parts per million Spurway, potash 20-25 parts, and phosphate 3-5 parts. During the rest of the year nitrate and potash readings should be around 40 parts per million for best growth. If soil tests indicate a feeding need, it may be applied in dry or liquid form. We use the latter because it is simpler to apply and more easily controlled.

Normal temperatures during firing season: nights 50°, cloudy days 57°, sunny days 65°. If we experience 2-3 weeks of cloudy weather in winter, we gradually drop to 45-52-60° till sunny weather returns. Failure to drop temperatures in dark weather may cause stubby spikes and soft stems.

## Insects and Diseases

If ever the old saying about "an ounce of prevention" is true, it certainly is when it comes to controlling insects. Spray regularly—don't wait for them to appear. Our standard spray for controlling practically all insects—plus mildew: per 10 gallons of water—2½ ozs. Parathion 15% wettable powder, 1½ ozs. DDT 50% wettable powder, 1½ ozs. wettable sulphur, 2½ ozs. Fermate, plus 2 ozs. Drest or other spreader.

Principal disease problems with Snaps are Botrytis rot and mildew. Good air circulation plus heat on damp, chilly days will help to prevent both, as will care in watering to avoid undue wetting of the leaves. Fermate and sulphur (incorporated in the spray mixture mentioned above) will aid in controlling mildew, while Parzate and Captan are reported to give good control of Botrytis.

## Supporting the Crop

We use conventional wire and cross string supports, finding two sets, which may be raised as the crop grows, enough for either single stem or pinched Snaps.

### VARIETIES FOR LATE NOVEMBER AND DECEMBER BLOOMING (In North)

White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
White Knight	War Admiral	Lady Dorothy	Whirlaway	Rowenna	Christmas Cheer Maxine New Times	Cherokee Commando Man-o-War	Bold Venture

### VARIETIES FOR MARCH THROUGH APRIL BLOOMING (Also October-Early November)

White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
Snowman Apollo Citation Ivory Tower Margaret Md. White Spartan White Twenty Grand Albion	Doublon Golden Spike Broker's Tip Ethel Goldrush Patricia Seabiscuit War Admiral	Barbara Cavalcade Gallant Fox Jubilee Md. Orange	Christina Mary Ellen Top Flight Md. Pink Imp. Rosebud Native Dancer	Pink Ice Flower Girl Holiday Chev. Maid No. 33 Crusader Dorcas Jane Chevy Chase Pink Pompey Wintergreen	Bridesmaid Jackpot Rosanna Better Times Libby Pensive Spartan Rose Prestige	Cherokee Md. Red Priscilla Ann Shisler's Red Navajo	Lavender Lady Md. Lavender Esquire

### VARIETIES FOR MARCH THROUGH MAY BLOOMING

White	Yellow	Bronze	Light Pink	Medium Pink	Rose	Red	Lavender
Pike's Peak Junglewood White Snowdrift (Dbl.) Tommy Armstrong	Yellow Peggy Schumann	Indian Chief Md. Orange	Hercules Rosebud Trilbee Pink	Anne Marie	Showgirl Peggy Schumann Star Charter	Navajo	Ball Lavender

Keep an accurate record of your own sowing and flowering dates for future use.



# Forcing Snapdragons

COMPLETE LIST OF VARIETIES — OUR RECOMMENDATIONS ARE DOTTED

SEE PAGES 5 and 6 FOR SNAP CULTURE

**ABOUT BLOOMING DATES.** Based upon their performance in our greenhouses here in West Chicago, we have classified the Snap varieties listed here as early (E) for those which ordinarily give the best results in November and December from a July or August sowing; midseason (M) for those which are normally at their best when flowered from January through April; late (L) for those that give the finest performance from March through May. Note that there is an over-lap in March and April during

which both the "M" and "L" classes are equally satisfactory. The varieties marked "S" include those which are especially adapted for summer greenhouse blooming from May to September; these varieties will usually refuse to flower at all when days are shorter and light is less intense.

Remember, though, that conditions vary in different localities and that keeping your own records will prove an invaluable guide in planning future crops.

## BALL HYBRID SNAPS

For 20 years the Ball organization has been among the foremost breeders of florists' Snapdragons. Each year we devote over 20,000 sq. ft. of greenhouse space to breeding and trialing work on this crop alone. The

following Ball Hybrids have come to be accepted as standards with growers everywhere—with improvements being added annually. See listings on these pages for a complete description of these varieties.

### YELLOW

**Golden Spike**  
**Doubloon**  
(New)

### PINK

**Flower Girl**  
**Hercules**  
**Holiday**  
**Pink Ice**

### ROSE

**Bridesmaid**  
**Showgirl**  
**Rosanna**  
**Jackpot**

### BRONZE & RED

**Indian Chief**  
**Navajo**

### WHITE

**Snowman**  
**Pike's Peak**  
**June Bride**

### LAVENDER

**Lavender Lady**  
**Esquire**  
**Hyb. Form. Mix.**

## YELLOW

### REAL WINTER SUNSHINE!

• **Doubloon** (New—Ball). Here's the rich, deep "treasure-gold" color you've wanted for years in a true midwinter blooming Snap. Doubloon is many shades deeper and brighter than War Admiral or Patricia. In fact, it's as bright as Golden Spike, but without the latter's short-spiked and soft-stemmed midwinter tendency. We predict a real future for this excellent new Snap. **Available mid-August.** ½ tr. pkt., \$2.00; tr. pkt., \$3.50.

½ Pkts. Available Only Where Listed.

- |  |          |
|--|----------|
|  | Tr. Pkt. |
| • <b>Golden Spike</b> (Ball). M. A rich, deep golden yellow with long, tapering spikes. Best yellow for spring. ½ tr. pkt., \$2.00   | \$3.50   |
| <b>Broker's Tip</b> (Yoder Bros.). M. Medium yellow for late winter and spring. Firm stems   | 3.50     |
| <b>Ethel</b> (Inbred). M. Medium yellow  | 1.50     |
| <b>Goldrush</b> (Winkler). M. Large flowered medium yellow. ½ tr. pkt., \$2.00   | 3.50     |
| • <b>Patricia</b> (J. S. Yoder). M. Medium yellow. ½ tr. pkt., \$2.00  | 3.50     |
| <b>Potomac Yellow</b> (New—Winkler). S. Medium yellow, summer flowering Hybrid. ½ tr. pkt., \$2.00   | 3.50     |
| • <b>Rockwood's Summer Yellow</b> (Inbred). S. Fairly deep yellow. For late spring and summer only. ½ tr. pkt., \$1.75   | 3.00     |
| • <b>Seabiscuit</b> (Yoder Bros.). M. Medium yellow. Similar to War Admiral except somewhat later and taller   | 3.50     |
| <b>Spiwak's Yellow</b> (Inbred). M. Originator's description, "Rich yellow with pencil-hard stem, large ruffled florets." We have not trialed this variety. ½ tr. pkt., \$1.75 | 3.00     |
| • <b>War Admiral</b> (Yoder Bros.). M. Excellent medium yellow for mid-winter  | 3.50     |
| <b>Yellow Peggy Schumann</b> (Inbred). L. For spring   | 2.00     |
| <b>Yolo Wonder</b> (Windmiller). M. A rich yellow with large florets. ½ tr. pkt., \$2.00   | 3.50     |



SNOWMAN



HERCULES

**(F) HYBRID** All Snapdragons listed on these pages are genuine **(F) HYBRID** varieties except those marked "inbred" which are self-pollinated kinds. **(F) HYBRID**

The dot (•) indicates varieties most dependably satisfactory in our experience and observation.

# Forcing Snapdragons

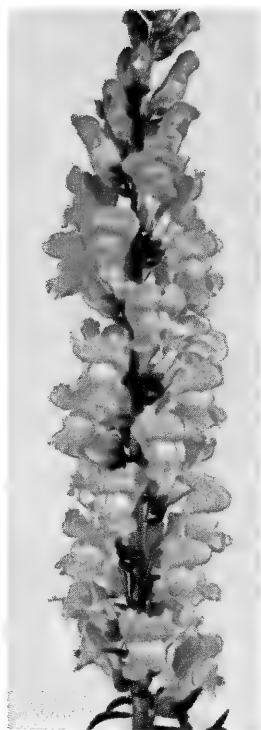
½ Pkts. Available Only Where Listed

## WHITE

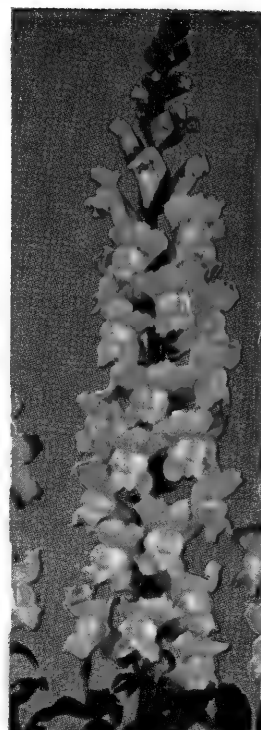
- |   | Tr. Pkt. |
|---|----------|
| ● <b>Snowman</b> (Ball). M. Excellent pure white. This has won acclaim as the nation's most widely grown pure white for winter and spring. ½ tr. pkt., \$2.00   | \$3.50   |
| ● <b>Pike's Peak</b> (Ball). L. Strong growing white with slight ivory cast. ½ tr. pkt., \$2.00   | 3.50     |
| ● <b>June Bride</b> (Ball). S. The first "hot weather" F <sub>1</sub> Hybrid developed for late spring and summer single stem greenhouse use. It has hard, clean stems and is shatter-proof in the presence of Ethylene gas. Sow from January through June only. <b>Sold out till late July.</b> ½ tr. pkt., \$2.00 | 3.50     |
| <b>Albion</b> (Yoder Bros.) M. A pure white which in our trials produces a better spike than White Knight although it is two weeks later ...  | 3.50     |
| <b>Apollo</b> (Yoder Bros.) M. Ivory; yellow lip  | 3.50     |
| ● <b>Citation</b> (Yoder Bros.) M. Ivory. Very fine, long spikes and clean, hard stems  | 3.50     |
| <b>Ivory Tower</b> (Pan-American). M. Long shatter-proof spikes of ivory-white. ½ tr. pkt., \$2.00  | 3.50     |
| <b>Jet Pilot</b> (Yoder Bros.) M. Pure white  | 3.50     |
| <b>Junglewood White</b> (Inbred). L. Extra long-stemmed white. ½ tr. pkt., \$1.25   | 2.00     |
| <b>Margaret</b> (Inbred). M. Ivory. Very productive   | 2.00     |
| <b>Maryland White</b> (Winkler). M. Pure white. ½ tr. pkt., \$2.00  | 3.50     |
| <b>Potomac White</b> (Winkler). S. Summer flowering white hybrid. ½ tr. pkt., \$2.00  | 3.50     |
| ● <b>Rockwood's Crystal White</b> (Inbred). S. An excellent pure white. For late spring and summer only. ½ tr. pkt., \$1.75   | 3.00     |
| <b>Snowdrift</b> . L. Double flowering white. New, improved strain, bred for high light intensity areas or spring growing only. ½ tr. pkt., \$1.75  | 3.00     |
| ● <b>Spartan White</b> (M.S.U.) M. Clean growing, pure white. ½ tr. pkt., \$1.75  | 3.00     |
| <b>Tommy Armstrong</b> (Inbred). L. Pure white. Closely spaced florets  | 2.00     |
| <b>Twenty Grand</b> (Yoder Bros.) M. Excellent ivory  | 3.50     |
| ● <b>White Knight</b> (Yoder Bros.) E. Pure white   | 3.50     |

## LIGHT PINK

- |  |      |
|--|------|
| ● <b>Hercules</b> (Ball). L. Light pink for spring. Long spikes with clean, hard stems are big features here. ½ tr. pkt., \$2.00                                 | 3.50 |
| <b>Christina</b> (J. S. Yoder). M. Popular light pink. ½ tr. pkt., \$2.00  | 3.50 |
| <b>Mary Ellen</b> (J. S. Yoder). M. Light pink. ½ tr. pkt., \$1.50   | 2.50 |
| <b>Maryland Pink Imp.</b> (Winkler). M. Creamy light pink. ½ tr. pkt., \$2.00  | 3.50 |
| ● <b>Native Dancer</b> (New—Yoder Bros.) M. This light pink is a shade darker than Rosebud. Stems are hard and clean with well formed flower spikes. A good Snap | 3.50 |
| <b>Rosebud</b> (Yoder Bros.) L. Pleasing medium pink for spring. Clean growth  | 3.50 |
| <b>St. Louis Pink</b> (Inbred). L. Light pink  | 1.50 |
| ● <b>Top Flight</b> (Yoder Bros.) M. Light pink. Similar to Christina but a few days earlier   | 3.50 |
| <b>Trilbee Pink</b> (Windmiller). L. Pastel pink. Close-set florets on long, strong spikes. ½ tr. pkt., \$2.00   | 3.50 |
| <b>Whirlaway</b> (Yoder Bros.) E. Pink with large yellow lip.  | 3.50 |



BRIDESMAID



JACKPOT

## MEDIUM PINK

- |   | Tr. Pkt. |
|---|----------|
| ● <b>Pink Ice</b> (Ball). M. Bright pink with lighter lips. An excellent hard-stemmed variety for growers who want a brighter pink to go with the Christina shade. ½ tr. pkt., \$2.00 | \$3.50   |
| ● <b>Flower Girl</b> (Ball). M. Long, medium pink spikes carried on clean, firm stems. Smooth, even coloring and good production. ½ tr. pkt., \$2.00                                  | 3.50     |
| <b>Holiday</b> (Ball). M. Medium pink; long spikes. ½ tr. pkt., \$2.00  | 3.50     |
| <b>Anne Marie</b> (J. S. Yoder). L. Late flowering, clear medium pink. ½ tr. pkt., \$2.00   | 3.50     |
| <b>Cheviot Maid No. 33</b> (Inbred). M. Clear rose-pink   | 1.50     |
| <b>Chevy Chase Pink</b> (Winkler). M. Similar to Maryland Pink, but a shade darker. Shatter proof. ½ tr. pkt., \$2.00   | 3.50     |
| <b>Crusader</b> (Yoder Bros.) M. Light "Dorcas Jane" pink shade   | 3.50     |
| <b>Dorcas Jane</b> (Burkey). M. Long spikes of silvery pink. ½ tr. pkt., \$1.50   | 2.50     |
| <b>Pompey</b> (Yoder Bros.) M. Medium pink. Long spikes   | 3.50     |
| <b>Potomac Pink</b> (New—Winkler). S. Summer flowering pink Hybrid. ½ tr. pkt., \$2.00  | 3.00     |
| ● <b>Rockwood's Summer Pink No. 1</b> (Inbred). S. Medium rose. For late spring and summer only. ½ tr. pkt., \$1.75   | 3.00     |
| ● <b>Rowenna</b> (Yoder Bros.) E. Similar to Wintergreen, but earlier   | 3.50     |
| ● <b>Wintergreen</b> (Yoder Bros.) M. Medium pink. Good commercial color  | 3.50     |

Continued on next page



All Snapdragons listed on these pages are genuine **F Hybrid** varieties except those marked "inbred" which are self-pollinated kinds.



# FORCING SNAPS

Continued

**ABOUT BLOOMING DATES.** Based upon their performance in our greenhouses here in West Chicago, we have classified the Snap varieties listed here as early (E) for those which ordinarily give the best results in November and December from a July or August sowing; midseason (M) for those which are normally at their best when flowered from January through April; late (L) for those that give the finest performance from March through May. Note that there is an over-lap in March and April during which both the "M" and "L" classes are equally satisfactory. The varieties marked "S" include those which are especially adapted for summer greenhouse blooming from May to September; these varieties will usually refuse to flower at all when days are shorter and light is less intense. Remember, though, that conditions vary in different localities and that keeping your own records will prove an invaluable guide in planning future crops.

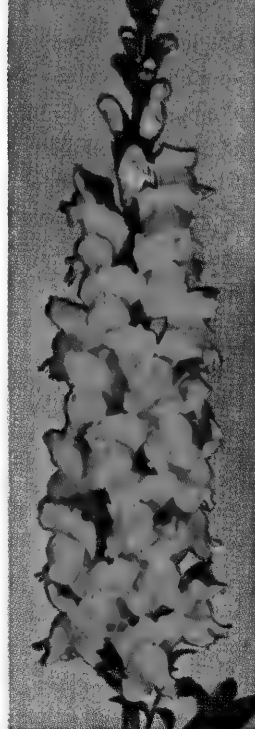
## ROSE

Tr. Pkt.

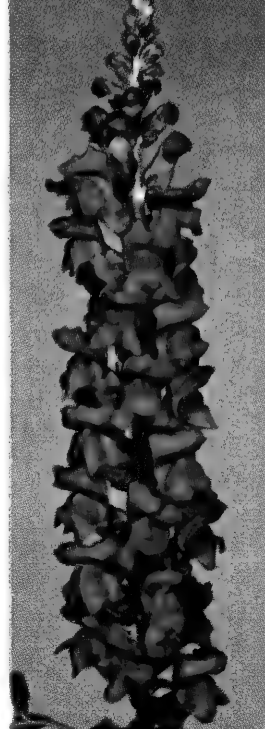
- **Bridesmaid** (Ball). M. A clear medium rose reminiscent of Peggy Schumann with exceptionally long spikes of well placed, large florets. 1/2 tr. pkt., \$2.00 ..... \$3.50
- **Jackpot** (Ball). M. Medium deep rose. Firm stems of medium length carrying long spikes with excellently spaced florets. A heavy producer. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Showgirl** (Ball). L. Medium dark rose. One of the best in its color class for spring. Shatter-proof spikes. **Sold out till late June.** 1/2 tr. pkt., \$2.00 ..... 3.50
- **Rosanna** (Ball). M. A bright, deep rose with long tapering spikes. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Better Times** (Inbred). M. Bright cerise-rose. 1/2 tr. pkt., \$1.25 ..... 2.00
- **Christmas Cheer** (Windmiller). E. Extra early, productive, bright rose. 1/2 tr. pkt., \$1.75 ..... 3.00
- **Delworth's Supreme** (Inbred). M. Long-stemmed, deep rose ..... 1.50
- **Libby** (J. S. Yoder). M. Dark rose. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Maxine** (Smith). E. Winter flowering medium rose. 1/2 tr. pkt., \$1.75 ..... 3.00
- **New Times** (Pan-American). E. Bright, deep rose. Medium long spikes with firm stems. 1/2 tr. pkt., \$1.75 ..... 3.00
- **Peggy Schumann** (Inbred). L. Beautiful creamy rose ... 2.00
- **Pensive** (Yoder Bros.) M. Dark rose ..... 3.50
- **Prestige** (Yoder Bros.) M. Long spikes of medium rose with yellow lip. Growth somewhat grassy ..... 3.50
- **Star Charter** (Yoder Bros.) L. Medium deep rose for spring ..... 3.50
- **Spartan Rose** (M.S.U.) M. Medium deep rose with long, heavy spikes. For late winter and spring only. 1/2 tr. pkt., \$1.75 ..... 3.00

## BRONZE

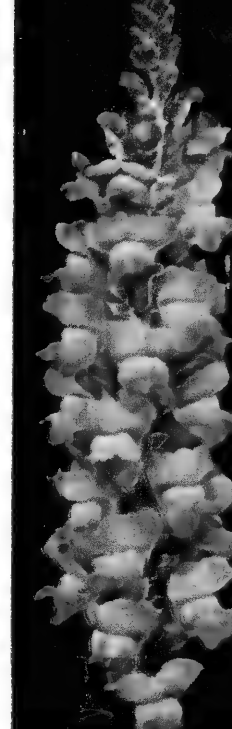
- **Indian Chief** (Ball). L. Scarlet-bronze for spring. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Barbara** (J. S. Yoder). M. Large-flowered bronze with pink throat. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Cavalcade** (Yoder Bros.) M. A lively golden bronze ... 3.50
- **Gallant Fox** (Yoder Bros.) M. Medium rosy bronze. Very fine ..... 3.50
- **Jubilee** (Winkler). M. Light golden bronze. Habit similar to Goldrush. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Lady Dorothy** (Inbred). E. Bright rosy bronze. 1/2 tr. pkt., \$1.75 ..... 3.00
- **Maryland Orange** (Winkler). M. Large flowered rosy bronze. Hard stems. 1/2 tr. pkt., \$2.00 ..... 3.50



CHEROKEE



NAVAJO



LAVENDER LADY

## RED

Tr. Pkt.

- **Cherokee** (Ball). E. & M. A true "Christmas" scarlet-red --not the crimson or wine-red color commonly grown. Long, well formed spikes with sturdy stems. **Available July.** 1/2 tr. pkt., \$2.00 ..... \$3.50
- **Navajo** (Ball). M. & L. We consider this the finest all-purpose red Snap available. Should be sown a week earlier than other varieties for winter. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Commando** (Yoder Bros.) E. Tall growing copper-red shade ..... 3.50
- **Man-O-War** (New--Yoder Bros.) E. A copper-red shade with yellow lip. Similar in color to Commando but a cleaner grower with better flower placement ..... 3.50
- **Maryland Red** (Winkler). M. Large flowered bright red. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Priscilla Ann** (J. S. Yoder). M. Attractive crimson or wine-red. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Rockwood's Summer Red** (Inbred). S. For late spring and summer only. 1/2 tr. pkt., \$1.75 ..... 3.00
- **Shisler's Red** (Inbred). M. Wine-red ..... 2.00

## LAVENDER

- **Lavender Lady** (Ball). M. A deep rosy lavender shade with excellent spikes and stems. For late winter and spring. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Esquire** (Ball). M. Bright wine or fuchsia-purple. 1/2 tr. pkt., \$2.00 ..... 3.50
- **Ball Lavender** (Inbred). L. Rosy lavender ..... 1.50
- **Bold Venture** (Yoder Bros.) E. Fuchsia-purple. Long stems and spikes ..... 3.50
- **Maryland Lavender** (Winkler). M. 1/2 tr. pkt., \$2.00 ... 3.50
- **Rockwood's Lavender Rose** (Inbred). S. For late spring and summer only. 1/2 tr. pkt., \$1.75 ..... 3.00

## MIXTURES

- **Hybrid Formula Mixture.** Well balanced blend of Hybrid Snaps. 1/2 tr. pkt., \$1.75 ..... 3.00
- **Ball Forcing Mixture.** Inbred or self-pollinated varieties. 1.00



All Snapdragons listed on these pages are genuine **F HYBRID** varieties except those marked "inbred" which are self-pollinated kinds.



The dot (•) indicates varieties most dependably satisfactory in our experience and observation.



# Plan Next Spring's Profits Now . . . With Quality Pansies

20,000 S.

It seems like **everybody** has Pansies to sell in the spring! And just about **every home gardener wants them**. The best way to be sure of getting your share of this profitable business next spring **and the spring after**, is to be sure your customers get the **highest quality plants**—plants that will be a source of joy from spring till frost—plants that will bring them back for more next year.

**Start with the best seed you can buy.** Combine that with all the growing skill you can muster, and the best selling methods you can develop, and your customers will do the rest.

**Buy the best seeds, grow the best plants, for the most profitable Pansies.**

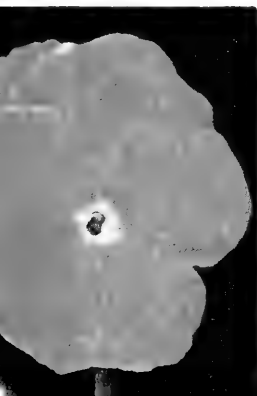
## •FOUR ACES FORMULA MIX

Recognizing that each of the several Pansy specialist's strains possesses some important advantage, we have formulated this special mixture which, properly handled, should be an ideal Pansy strain. This mixture includes seed of **Color Carnival** with deep, bright shades and compact habit; **Steele's Jumbo** for early blooms; **Canadian Giants** with their exceptional flower size; and **Ball Giant Mixed** to complete a full, well rounded color range.

Grown slowly and cool, the slight variations in habit of growth of these strains will not be found objectionable. Each of your Pansy customers will find his favorite strain in this mixture plus qualities imparted by the other top-notch Pansies. Here is a Pansy mixture that you can promote with complete confidence. Special note: sow thin and transplant all normal seedlings; otherwise, as in any other mixture, color balance is lost.

Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

CORONATION GOLD



LAKE OF THUN



RHINEGOLD



ALPENGLOW





# BALL QUALITY PANSIES

## "FOUR BEST"

- **Ball Giant Mixture.** This is our finest and most popular bedding Pansy mixture. We blend this ourselves, using the best available strains of Swiss Giants, adding separate varieties to insure a good balance of colors.  
Tr. pkt., 85c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$10.00; 4 ozs., \$36.00.
- **Canadian Giants.** This selection from Maple Leaf Giants contains some of the largest flowers in Pansies.  
Tr. pkt., \$1.00; 1/8 oz., \$1.85; 1/4 oz., \$3.30; 1 oz., \$11.00.
- **Roggli Giant Elite Mixture.** A choice Swiss bedding strain, predominating in rich red and bronze shades with the typical, large, deep blotches. The finest large flowered Pansy. We supply *originator's imported seed* only.  
Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.
- **Steele's Jumbo Mixture.** We handle the *originator's seed* of this popular American strain.  
Tr. pkt., \$1.25; 1/8 oz., \$3.40; 1/4 oz., \$6.10; 1/2 oz., \$10.35; 1 oz., \$16.55.

**America.** An exceptionally free flowering mixture with medium sized blooms. Dwarf and extra early.  
Tr. pkt., 65c; 1/4 oz., \$2.75; 1 oz., \$10.00.

- **Ball Giant Mixture Dwarf Strain.** A fine Swiss Giant strain selected for dwarf and compact habit. *Ball Orig. seed.*  
Tr. pkt., 65c; 1/8 oz., \$1.40; 1/4 oz., \$2.75; 1 oz., \$9.00; 4 ozs., \$32.00.

## ● BALL WINTER FLOWERING

Our greatly improved strain of this tall growing winter cut-flower variety. At its best from a late summer sowing—not for bedding. A new, large flowered, long-stemmed strain with improved colors.  
1/2 tr. pkt., 65c; tr. pkt., \$1.10; 1/8 oz., \$2.75; 1/4 oz., \$5.00.

**Butterfly Mixture.** Ruffled 2 1/2-3 in. flowers, including unusual apricot, terra cotta and rosy orchid shades, are freely produced on vigorous plants. *Originator's seed* only. Tr. pkt., \$1.25; 1/8 oz., \$3.35; 1/4 oz., \$5.60; 1/2 oz., \$9.75; 1 oz., \$17.75.

## SEPARATE COLORS

- Alpenglow.** (See opposite page.) Mahogany-red with dark center.
  - Berna.** Dark velvety blue.
  - **Coronation Gold.** (See opposite page.) The finest, clear golden yellow.
  - Delft Blue.** Porcelain-blue; a prized and unusual Pansy color. Flowers rather small, but free flowering.
  - Firebeacon.** Bright, flaming orange with dark center.
  - Giant Orange.** Light orange; similar in color to Viola Apricot.
  - Jet Black.** 80% of the flowers are a true black throughout the spring, the purple undertone not becoming apparent until hot weather. Unusual grown with white Pansies.
  - **Lake of Thun.** (See opposite page.) Large flowered blue with darker center.
  - Mont Blanc.** Ivory-white with small yellow eye.
  - **Raspberry Rose.** Soft pink with contrasting velvety blotch.
  - Redwing.** Red and yellow petals, darker center.
  - Rhinegold.** (See opposite page.) Large flowered yellow with dark center.
  - **True Blue.** Solid mid-blue without blotch.
- Prices above 13, each:  
Tr. pkt., 80c; 1/8 oz., \$2.00; 1/4 oz., \$3.50; 1 oz., \$11.00.
- **Paper White.** Pure white, rather than the ivory shade of Mont Blanc; small yellow eye. Very outstanding in our trials.  
Tr. pkt., \$1.00; 1/8 oz., \$3.00; 1/4 oz., \$5.00; 1 oz., \$18.00.
  - Pay Dirt.** Large yellow with black lines. *Originator's seed.*  
1/16 oz., \$3.00; 1/8 oz., \$5.00; 1/4 oz., \$9.00.

- **Color Carnival.** A remarkable American produced strain of Swiss Giants. Our trials indicate that it is quite similar to the best imported Roggli strain. Large flowers in a superb mixture of colors.  
Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.

- **Engelmann's Giant Mixture.** A large flowered and brightly colored strain, many being penciled or veined. Fairly compact growth. We offer *originator's seed* only.  
Tr. pkt., \$1.00; 1/8 oz., \$3.30; 1/4 oz., \$6.00; 1 oz., \$18.00.



- **Felix.** Uniformly true to type, with well ruffled flowers of good size carried on fairly dwarf plants. Colors are rich and unusual, each flower being marked with the dark "whiskers" characteristic of this strain.

Tr. pkt., \$1.00; 1/4 oz., \$3.00; 1 oz., \$9.00.

**Improved Swiss Giants.** Predominates in rich bronze and red shades. Tr. pkt., 65c; 1/4 oz., \$2.75; 1 oz., \$9.00.

**"101" Giant Mixture.** A choice bedding and basket Pansy of the "English" type. Large flowers in a wide color range on compact plants.  
Tr. pkt., 90c; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

**Maple Leaf Giants.** An excellent, extra large flowered strain. Heavy growth with good stems.  
Tr. pkt., 65c; 1/8 oz., \$1.65; 1/4 oz., \$3.00; 1 oz., \$10.00.

**Oregon Giants.** A complete mixture of long-stemmed, large flowered Giant Ruffled Pansies. *Originator's seed.*  
200 seeds, 50c; 600 seeds, \$1.25; 1/4 oz., \$4.00; 1 oz., \$12.00.

- **Ruffled Rainbow.** An unusually uniform dwarf mixture characterized by medium large flowers with distinctly ruffled petals and a wide range of colors.  
Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.



- **PANSY Tigress.** "Miniature Pansies." Reds, yellows, orchids and purples in novel striped and blotched arrangements of at least 3 colors create a striking appearance. Tigress has a very distinct and fine fragrance.

Tr. pkt., 50c; 1/4 oz., \$1.75; 1 oz., \$5.00.

**Blue Butterfly.** Blue and white. Improved Lord Beaconsfield.  
Tr. pkt., \$1.00; 1/8 oz., \$2.75; 1/4 oz., \$5.00; 1 oz., \$15.00.

**Redskin.** Solid dark red.  
Tr. pkt., \$1.00; 1/8 oz., \$3.00; 1/4 oz., \$5.00; 1 oz., \$18.00.

## Originator's Separate Colors

We have definitely proved by thorough comparative flowering trials at West Chicago the general superiority of these originator-grown Swiss Giant Pansies. For flower size, uniformity of color and habit, they are the finest separate color Pansies available.

- **Eiger** (Rhinegold).
- **Hohenfeuer** (Firebeacon).
- Blumlisalp** (Raspberry Rose).
- Berna, Originator's.**
- Alpengluhn** (Alpenglow).
- Jungfrau.** White.
- Monch** (Coronation Gold).
- **Thunersee** (Lake of Thun).
- **Roggli Giant Elite Mixture.** (See 4 best, above).
- **Roggli Straight Color Mixture.** Our own mixture of the above Roggli separate colors, blended by formula.

Prices above 10 varieties, each:  
Tr. pkt., \$1.50; 1/8 oz., \$3.75; 1/4 oz., \$7.00; 1 oz., \$22.00.

# PERENNIALS

A sowing of hardy perennials made this summer will flower freely next year with a minimum of care. See our spring catalog for a more complete description of the following:

**ACHILLEA**—● **Filipendula, Parker's Variety** (Cloth of Gold). 225,000 S. Large heads of golden yellow flowers; long stems.  
● **The Pearl** (Ptarmica). 170,000 S. 30 in. The standard double white for cutting.  
Prices above 2, each: tr. pkt., 30c; ½ oz., 70c; ¼ oz., \$1.25.

**ACONITUM** (Monkshood)—**Napellus**. 10,000 S. 4 ft. Dark blue; does best in partial shade. Tr. pkt., 30c; ¼ oz., 80c.

**ALSTROEMERIA** (Lily of Peru)—**Chilensis**. 1,600 S. Shades of pink, rose and red. Medium tall. For bedding and cut flower use. Germination erratic.  
Tr. pkt., 55c; ¼ oz., \$1.65; 1 oz., \$5.00.

**ALYSSUM**—● **Saxatile Compactum** (Gold Dust). 30,000 S. 12 in. Rich golden yellow.  
Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.20.  
**Saxatile Silver Queen** (Sulphureum). Light lemon-yellow.  
Tr. pkt., 30c; ¼ oz., \$1.00; 1 oz., \$3.00.

**ANCHUSA**—**Dropmore Strain** (Italica). 1,100 S. 5 ft. Nice blue for cutting. Tr. pkt., 20c; ¼ oz., 60c; 1 oz., \$1.80.  
**Myosotidiflora**. 10,500 S. 12 in. May flowering Forget-me-not blue. Tr. pkt., 60c; ½ oz., \$1.35; ¼ oz., \$2.50; 1 oz., \$8.50.

**ANEMONE**—**St. Brigid Mixture**. 37,000 S. Choice long-stemmed mixture of brilliant colors.  
Tr. pkt., 55c; ¼ oz., \$1.10; 1 oz., \$3.25.  
**Pulsatilla** (European Pasque Flower). Beautiful violet-purple flowers on 12-inch plants which are covered with silky hairs. Blooms in April-May; likes a dry location.  
Tr. pkt., 40c; ½ oz., 70c; ¼ oz., \$1.20.

**ANTHEMIS**—**Kelwayi** (Hardy Marguerite). 85,000 S. 3 ft. Yellow Daisy flowers produced throughout summer.  
Tr. pkt., 20c; 1 oz., 70c.

**AQUILEGIA** (Columbine)—**Coerulea** (Rocky Mountain Columbine). 18 in. Sky-blue; white corolla.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

● **Mrs. Scott Elliott's Mixture**. 2 ft. An excellent and popular long-spurred mixture.  
**Rose Queen**. 18 in. Rose with white corolla.  
**Snow Queen**. 2 ft. Creamy white flowers.  
Above 3, each: tr. pkt., 40c; ¼ oz., \$1.10; 1 oz., \$3.25.  
**Copper Queen**. 2 ft. Copper-red shades with straw-yellow corolla. Tr. pkt., 55c; ½ oz., \$1.65; ¼ oz., \$3.00.  
**Crimson Star**. 18 in. Dark red with white corolla.  
Tr. pkt., 60c; ½ oz., \$1.75; ¼ oz., \$3.00.  
**Longissima Yellow**. 2 ft. Delicate, pale yellow with extra long (4 in.) spurs. Tr. pkt., 60c; ½ oz., \$2.50; ¼ oz., \$4.75.  
**Mrs. Nicholls**. 2 ft. Large-flowered, clear deep blue.  
Tr. pkt., 50c; ½ oz., \$1.50; ¼ oz., \$2.75; 1 oz., \$9.00.  
● **Long Spurred Mixture**. A well balanced blend with large flowers and long spurs.  
Tr. pkt., 40c; ½ oz., \$1.20; ¼ oz., \$2.00; 1 oz., \$6.00.

## ● MCKANA'S GIANT

**ALL-AMERICA SELECTION** Large, extra long-spurred flowers 3 to 4 inches across in a gay mixture of colors. One of the showiest of all Columbines.  
Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

**ARABIS** (Rock Cress)—● **Alpina, Snowcap**. 120,000 S. 6 in. Shining snow-white. Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.75.  
**Alpina White**. 12 in. White. Taller than Snowcap.  
Tr. pkt., 25c; ½ oz., 55c; 1 oz., \$1.80.  
**Spring Charm** (Blepharophylla). Semi-hardy, carmine-rose. Should be wintered in frames. Blooms in April-May.  
Tr. pkt., 50c; ½ oz., \$1.50.  
**Alpina Pink**. 12 in. Delicate, pale pink.  
Tr. pkt., 45c; ¼ oz., \$1.30; 1 oz., \$3.90.

**ARMERIA** (Thrift)—**Alpina**. 32,000 S. 8 in. Dwarf, bright rose.  
Tr. pkt., 75c; ¼ oz., \$2.75.  
**Formosa, Large-Flowered Mixture**. 12,000 S. 2 ft.  
Tr. pkt., 40c; ½ oz., 75c; ¼ oz., \$1.40; 1 oz., \$4.25.

## ● GLORY OF HOLLAND

Ball-shaped deep pink flowers about 1½ inches in diameter, carried on straight, wiry stems 2 feet long. Fine for cutting and blooms throughout the summer.  
Tr. pkt., 60c; ½ oz., \$2.00.

**ASCLEPIAS**—**Tuberosa**. 4,500 S. 3 ft. Showy orange flowers.  
Tr. pkt., 35c; ¼ oz., \$1.30; 1 oz., \$3.90.

**ASTER**—**Hardy Large-Flowered Mixture**. 17,500 S. 4 ft. Attractive assortment. Tr. pkt., 55c; ½ oz., \$1.25; ¼ oz., \$2.25.  
**Alpinus, Finest Mixture**. 22,000 S. About 15 in. tall. 1½-inch lavender, blue and white flowers. Tr. pkt., 55c; ½ oz., \$1.10.

● **Wartburg Star**. Clear lavender-blue flower with yellow center. Well suited for garden border use with long, strong stems which make excellent cut flowers.  
Tr. pkt., 75c; ½ oz., \$2.00; ¼ oz., \$6.00.

**AUBRIETIA**—**Large-Flowered Mixture** (Monarch Strain). 150,000 S. 6 in. Low growing mat-like plants; similar to Arabis but with flowers in a wide range of colors from lilac to purple.  
**Hendersoni**. Deep purple.  
**Leichtlini**. Carmine-rose.

Prices above 3, each: tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**BAPTISIA**—**Australis** (False Indigo). 1,700 S. 3 ft. Sprays of pea-shaped indigo-blue flowers. Tr. pkt., 35c; 1 oz., \$1.50.

**BELLIS**—**PERENNIS** (Monstrosa). 135,000 S. Popular Double English Daisy.  

Red	Rose	Salmon	White
Above 4, each: tr. pkt., 60c; ½ oz., \$2.00; ¼ oz., \$3.75.			
Mixture. Tr. pkt., 60c; ½ oz., \$1.80; ¼ oz., \$3.30.			

**BROOM**—**Choice Mixture**. 5,500 S. 4 to 5 ft. Vigorous shrubs; bright color range. Tr. pkt., 50c; ½ oz., \$1.25; ¼ oz., \$2.35.

**CAMPANULA**—**CARPATICA**. 350,000 S. 12 in. Dwarf perennial.

**Blue**. Tr. pkt., 30c; ½ oz., 80c; ¼ oz., \$1.45.

**Cullinmore Mixture**. Contains many new colors in this dwarf class. Tr. pkt., 60c; ½ oz., \$1.50; ¼ oz., \$2.80.

● **Rock Garden Blend**. Desirable, low-growing kinds in a wide range of Campanula colors. Tr. pkt., 75c.

**MEDIUM CALYCANTHEMA** (Cup-and-Saucer type). 120,000 S. 3 ft. Biennial.

Dark Blue	Light Blue	Rose	White	Mixture
Above 5, each: tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.75.				

**MEDIUM SINGLE** (Canterbury Bells). 135,000 S. 3 ft.

Dark Blue	Light Blue	Pink	White	Mixture
Above 5, each: tr. pkt., 20c; ¼ oz., 30c; 1 oz., 90c.				

**MEDIUM DOUBLE** (Canterbury Bells). 102,000 S.

**Formula Mixture**. Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

**PERSICIFOLIA**. 340,000 S. 30 in.

**Telham Beauty**. China-blue. 30 in.  
Tr. pkt., 40c; ½ oz., \$1.00; ¼ oz., \$1.85.

**CARNATION**—**GRENADIN** (Hardy Carnation). 14,000 S. 20 in.

**King of the Blacks**. Darkest red.

Golden Sun	● Pink	● Red	White	● Mixture
Above 6, each: tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.50.				

**CATANANCHE**—**Coerulea**. 16,000 S. 24 in. Everlasting light lavender-blue flowers. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.25.

**CENTAUREA**—**Montana**. 1,600 S. 24 in. Large Cornflower-blue flowers. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

## PERENNIALS, Continued

**CERASTIUM—Tomentosum** (Snow-in-Summer). 42,000 S. 10 to 12 in. An excellent dwarf bedding perennial with silvery foliage and small white flowers.  
Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

**CHEIRANTHUS** (Siberian Wallflower). 19,000 S.

● **Golden Bedder**. 18 in. Large, deep golden yellow.  
Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.20.

● **Orange Queen**. 18 in. Free-flowering, brilliant orange.  
Tr. pkt., 20c; 1 oz., 50c; 4 ozs., \$1.50.

**CHRYSANTHEMUM—Korean Mixture**. 60,000 S. 1½ to 2 ft. Single and semi-double types in a good color range. Some bloom rather late for localities with early frost dates.  
Tr. pkt., \$1.00; ½ oz., \$2.50; ¼ oz., \$4.50.

### ● GLORY MIXTURE

60,000 S. 1½ to 2 ft. Our finest mixture of hardy Chrysanthemums with an exceedingly wide range of brilliant colors. Contains Korean and Arcticum Hybrids, Azaleamums, Indicum and Morifoliums.

Tr. pkt., \$1.00; ½ oz., \$2.50; ¼ oz., \$4.50.

**CLEMATIS—Paniculata**. 4,500 S. White-flowered climber. Reaches 20 ft.

● **Recta Mandschurica**. 7,500 S. Panicles of fragrant white flowers on 4 to 5 ft. plants.

Prices above 2, each: tr. pkt., 75c; ½ oz., \$1.50; ¼ oz., \$2.75.

**COREOPSIS—Sunburst**. 11,000 S. 24 in. A fine semi-double strain, with 2-inch golden yellow flowers.  
Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.10.

### CYCLAMEN.

### NEAPOLITANUM PERENNIAL MIXTURE

Shades of rose and white flowers about 1/3 the size of annual Cyclamen. Free flowering on 8-10-inch stems, in August and September. For best results sow early fall and carry seedlings through the first winter under glass, transplanting out to partially shaded area in spring.  
100 seeds, \$1.00; 500 seeds, \$3.00.

**DAISY** (Chrysanthemum Maximum).

● **Double Fringed** (Diener's). 24,000 S. A specially reselected strain. Tr. pkt., 60c; ¼ oz., \$4.25.

### ● G. MARCONI

18,000 S. The largest flowered and finest double Shasta Daisy strain from seed. Long-stemmed.

Tr. pkt., 60c; ½ oz., \$1.65; ¼ oz., \$3.00.

● **June Marguerite**. 40,000 S. Early flowering.

Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

● **Mayfield Giant**. 21,000 S. Quite large flowered; end of June.

● **Alaska**. 21,000 S. The standard Shasta Daisy; July.

● **Conqueror**. 21,000 S. Giant late white; late July.

Prices above 3, each: tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

**DELPHINIUM**—See back cover.

**DIANTHUS—Allwoodi Alpinus Mixture**. 28,000 S. 8 to 10 in. Single flowers in shades of pink.

Tr. pkt., 35c; ½ oz., \$1.00; ¼ oz., \$1.75.

● **Deltoides Erecta**. 6 in. A dwarf rose "Maiden Pink."

Tr. pkt., 35c; ½ oz., \$1.00; ¼ oz., \$1.75.

● **Latifolius Atrococcineus**. 38,000 S. 12 to 15 in. Miniature rose-like crimson flowers.

Tr. pkt., 35c; ½ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.25.

● **Loveliness**. 15 in. Large, fringed and curled pastel and white flowers. Quite fragrant. *Originator's seed*.

Tr. pkt., 50c; ½ oz., \$1.50; ¼ oz., \$4.50.

● **Winteri**. 16,400 S. Large single flowers in a mixture of pure colors. Long blooming period.

Tr. pkt., 60c; ½ oz., \$1.50; ¼ oz., \$5.00.

### DIANTHUS—Continued

● **PLUMARIUS** (Clove Pink). **Cyclops**. Rose and pink with crimson ring. Tr. pkt., 40c; ¼ oz., \$1.10.

● **Double Mixture** (Scoticus Florist Strain). Various shades of pink, rose, and white; some self colors, others with bright crimson zone. 1½-in. flowers on 12-15 in. stems.

Tr. pkt., 35c; ½ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$5.25.

● **Single Mixture**. 20 in. Free flowering, sweet scented, pink and white. Spreading. Tr. pkt., 20c; ¼ oz., 40c; 1 oz., \$1.45.

● **BARBATUS** (Sweet William). Early June flowering. 24 in.

● **Dark Crimson**. A smooth, velvety color.

● **Holborn Glory**. Striking combination of crimson with white.

● **Newport Salmon** (Pink Beauty). Salmon-rose shade.

● **Purple Beauty**. A rich deep color.

● **Scarlet Beauty**. Well named, intense scarlet-red.

● **Giant White**. Ours is an extra large-flowered strain.

● **Single Mixture**

● **Double Mixture**

● **Auricula**. Choice single mixture with very large flowers showing a clearly defined eye.

Prices above 9, each: tr. pkt., 35c; ¼ oz., 75c; 1 oz., \$2.60.

● **Single Midget Mixture**. A very fine rock plant. 4 to 6 in. Tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.75.

● **Double Midget Crimson**. 6 to 8 in. A separate color selected from the popular Double Midget Mixed. True to type.

Tr. pkt., 50c; ¼ oz., \$1.50; 1 oz., \$4.50.

● **Double Midget Mixture**. Tr. pkt., 40c; ¼ oz., 90c; 1 oz., \$3.00.

● **DICENTRA—Spectabilis** (Bleeding Heart). Rosy red flowers. Tr. pkt., \$1.50; ½ oz., \$2.20; ¼ oz., \$4.00.

● **Eximia** (Plumy Bleeding Heart). Dwarf, 12 in. Rose-pink. Tr. pkt., 40c; ¼ oz., \$1.10.

● **DICTAMNUS—Fraxinella** (Gas Plant). 1,700 S. Pink with dark veins. Tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.85.

● **DIGITALIS—GLOXINOIDES** (Foxglove). 180,000 S.

● **Purple** ● **Rose** ● **White** ● **Giant Shirley Mixture**

Prices above 4, each: tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$2.15.

● **DORONICUM—Caucasicum Magnificent**. 18,000 S. 2 ft. Large yellow Gerbera-like flowers with long stems. Keeps well when cut. Tr. pkt., \$1.00; ½ oz., \$2.25.

● **ECHINOPS—Ritro** (Globe Thistle). 688 heads to oz. Blue flower heads 1½ to 2 inches in diameter on 2-3-ft. plants.

Tr. pkt., 40c; ¼ oz., \$1.10; 1 oz., \$3.25.

● **EDELWEISS**. See *Leontopodium*, page 30.

● **EREMURUS—Robustus** (Foxtail Lily). 8 ft. Huge 3-ft. spikes of bright rose-pink. Blooms in 3 years from seed. Tr. pkt., \$1.00; ¼ oz., \$3.50.

● **EUPHORBIA—Corollata** (Wild Baby's Breath). 8,700 S. 24 in. Small Gypsophila-like white flowers.

Tr. pkt., 40c; ½ oz., \$1.25; ¼ oz., \$2.25.

● **Myrsinites**. 2,500 S. Attractive succulent-like silvery green foliage. Each branch produces a brilliant yellow bract of leaves in May. 6-8 in. tall. Tr. pkt., 35c; ½ oz., \$1.00.

● **Polychroma**. 7,000 S. 15 to 18 in. Bushy plants with bracts of bright yellow changing to rosy bronze.

Tr. pkt., 60c; ½ oz., \$1.35.

● **FEVERFEW**. See *Matricaria*, page 30.

● **GAILLARDIA—GRANDIFLORA**. 9,500 S. ● **Dazzler**. The standard fine cutting strain. Golden yellow with maroon center.

● **Monarch Strain**. A very superior mixture.

Prices above 2, each: tr. pkt., 30c; ¼ oz., 55c; 1 oz., \$1.85.

● **Burgundy**. Wine-red. Tr. pkt., 30c; ¼ oz., 75c; 1 oz., \$2.35.

● **Portola Strain**. Large maroon-red flowers tipped with yellow.

Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.40.

● **Goblin**. Compact plants; red and yellow bicolored flowers.

Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.35.

## PERENNIALS, Continued

**GEUM**—7,000 S. **Lady Stratheden**. 24 in. Double golden yellow.  
**Mrs. Bradshaw**. 24 in. Double glowing red.  
Prices above 2, each: tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

**GYSOPHILA**—● **Pacifica**. 34,000 S. 3 ft. Starry pink flowers in September and October.  
Tr. pkt., 30c; ¼ oz., \$1.25; 1 oz., \$3.75.

**Oldhamiana**. Feathery light pink. Oct. flowering; watch frost dates. Tr. pkt., 25c; ¼ oz., 75c; 1 oz., \$2.50.

**PANICULATA**. ● **Double Snow Flake**. 40 in. About 50% are double flowering. Tr. pkt., 40c; ¼ oz., \$1.40; 1 oz., \$4.75.

**Single White**. 40 in. Tr. pkt., 25c; 1 oz., \$1.00; 4 ozs., \$3.00.

**REPENS**. **Rose**. 6 in. Tr. pkt., 30c; ¼ oz., 80c; 1 oz., \$2.50.

**HELIANTHEMUM**—**Mutabile** (Sun Rose). 15,000 S. 8 to 10 in. Attractive dwarf rock plant.  
Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.40.

**HELLEBORUS**—**Niger** (Christmas Rose). 3,600 S. Attractive 2½-in. white flowers; basal foliage. Seed should be frozen before sowing, or sown outdoors in fall for best results.  
Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

**Choice Mixture**. Tr. pkt., 60c; ¼ oz., \$1.20; 1 oz., \$3.60.

**HESPERIS**—**MATRONALIS** (Sweet Rocket). 15,000 S. 3 ft. Sweet scented, ½-inch flowers in long racemes.

**Violet** **White**

Prices above 2, each: tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.00.

**HEUCHERA**—**SANGUINEA** (Coral Bells). 750,000 S. 24 in. **Splendens**. Crimson.

**Hybrida Mixture**. Shades of red through rose and white.

Above 2, each: tr. pkt., 60c; ¼ oz., \$1.75; 1 oz., \$3.25.

**HIBISCUS**—**Mallow Marvels Mixture**. 7,000 S. Large, showy, tropical flowers. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.80.

● **Avalon**. 5 ft. This is an exceptional mixture of genuine F<sub>2</sub> Hybrids with colors ranging from blush-pink to bright red. The blooming period (early July to late September) is much longer and the flowers larger than the regular Mallow Marvels. Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

**HOLLYHOCK**—**Imperator Improved**. 2,700 S. 6 to 8 ft. Choice double-crested mixture.  
Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$2.00.

● **Triumph**. Double-fringed flowers in delicate art shades.  
Tr. pkt., 30c; ¼ oz., 60c; 1 oz., \$1.80.

**CHATER'S DOUBLE**. 3,100 S. The standard double Hollyhock.

<b>Chamois</b>	<b>Sulphur-Yellow</b>	<b>Newport Pink</b>
<b>Scarlet</b>	<b>Lilac Beauty</b>	<b>Black</b> . Deep maroon.
<b>Deep Rose</b>	<b>White</b>	<b>Mixture</b>

Above 9, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00.

**IBERIS**—**Gibraltarica** (Hardy Candytuft). 11,500 S. 12 in. Large flowered lilac. Tr. pkt., 25c; ¼ oz., 50c; 1 oz., \$1.50.

**Sempervirens**. 12 in. White flowers in late May. Needs ample moisture. Tr. pkt., 55c; ¼ oz., \$1.35; 1 oz., \$4.75.

**INCARVILLEA**—**Grandiflora Brevipes**. 6,000 S. 18 in. Brilliant crimson-rose flowers.

**Delavayi**. 24 in. Large, Gloxinia-like, rosy purple flowers.

Prices above 2, each: tr. pkt., 60c; ¼ oz., \$1.20.

**IRIS**—**Dichotoma** (Vesper Iris). 7,000 S. 2 ft. Assorted colors; fragrant. Tr. pkt., 30c; ¼ oz., 90c; 1 oz., \$2.70.

**Kaempferi** (Japanese Iris). 2 ft. A wide variety of colors; many doubles. Tr. pkt., 40c; ¼ oz., 75c; 1 oz., \$2.35.

**LATHYRUS**—**LATIFOLIUS** (Hardy or Everlasting Sweet Pea). 500 S. 7 ft.

<b>Pink Beauty</b>	<b>White Pearl</b>	<b>Red</b>	<b>Mixture</b>
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Prices above 4, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$1.90.

**LAVANDULA**—● **Munstead Strain**. 32,000 S. 12 in. Freely produces large, sweet-scented flowers.  
Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

**LEONTOPODIUM**—**Alpinum** (Edelweiss). 275,000 S. 10 in. Small greenish white flowers.  
Tr. pkt., 60c; ¼ oz., \$1.10; 1 oz., \$2.00.

**LIATRIS** (Gayfeather)—● **Pycnostachya**. 9,500 S. 3 to 5 ft. Long-spiked purple. Finest cut flower kind.

**Scariosa Purple** **Scariosa White**

Above 3, each: tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.

● **September Glory**. Tall growing with purple spikes.

Tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.00.

**Elegans**. Large, starry blooms of pure lavender with snow-white center. Tr. pkt., 60c; ¼ oz., \$2.00; 1 oz., \$6.00.

**LILIES**—● **White Queen**. 8,200 S. Finest white seed-propagated Lily.

½ tr. pkt., 75c; tr. pkt., \$1.25; 1 oz., \$2.75; ¼ oz., \$5.00.

**Candidum** (Madonna Lily). Tall pure white.

Tr. pkt., \$1.25; 1 oz., \$2.75; ¼ oz., \$5.25; 1 oz., \$16.50.

**Formosanum Giant Flowered**. 8200 S. White.

Tr. pkt., 60c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$13.00.

**Henryi**. Orange, spotted brown.

Tr. pkt., \$1.00; ¼ oz., \$3.00; 1 oz., \$9.00.

**Regale** (Regal Lily). 6,500 S. The large, showy flowers are pure white inside with yellow base; reverse of petals is tinged with pink. Tr. pkt., 25c; ¼ oz., 60c; 1 oz., \$1.50; 4 ozs., \$5.00.

**Tenuifolium** (Coral Lily). Medium sized flowers of brilliant coral-red. Tr. pkt., 60c; ¼ oz., \$1.50; 1 oz., \$4.50.

**LINUM**—**Perenne** (Perennial Flax). 8,500 S. 2 ft. Blue.

Tr. pkt., 30c; 1 oz., 90c.

**Flavum Compactum**. 8 in. Golden yellow flowers with dark green foliage. Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.

**Collinum**. Dwarf growing, bright blue.

Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75.

**LOBELIA**—**Cardinalis** (Cardinal Flower). 725,000 S. 3 ft. Bright cardinal-red. Tr. pkt., 40c; 1 oz., 90c; ½ oz., \$2.70.

**LUNARIA**—**BIENNIS** (Honesty or Money Plant). 1,500 S.

**White** **Mixture**

Prices above 2, each: tr. pkt., 25c; ¼ oz., 40c; 1 oz., \$1.40.

**LUPINE**—**POLYPHYLLUS** (Hardy Lupine). 4 ft.

### ● RUSSELL STRAIN

1,000 S. Long, closely set spikes of extra large florets in rich self colors and unusual bicolors. Developed by a famous English specialist.

**RESELECTED STOCK** (*Originator's packets*). 24 seeds, 40c; 65 seeds, 65c; 150 seeds, \$1.25; 350 seeds, \$2.50.

**REGULAR SEED**. Tr. pkt., 40c; ¼ oz., 65c; 1 oz., \$2.10; 4 ozs., \$6.50.

**MISCELLANEOUS POLYPHYLLUS VARIETIES**. 1,450 S.

**Dark Blue** **Rose** **White**

Prices above 3, each: tr. pkt., 35c; ¼ oz., 65c; 1 oz., \$2.00.

**Harkness Regal Mixture**. The standard fine hybrid mixture. Tr. pkt., 20c; ¼ oz., 35c; 1 oz., \$1.10.

**LYCHNIS**—**Chalcedonica** (Maltese Cross). 64,000 S. 3 ft. Scarlet. Tr. pkt., 25c; ¼ oz., 45c; 1 oz., \$1.40.

**Rose**. 5 in. Brilliant rose, for rock gardens.

Tr. pkt., 50c; 1 oz., \$1.50.

**Forrestii**. 15 in. Mixture of rose, lilac, white and red. Excellent cut flower and bedding plant.

Tr. pkt., 35c; ¼ oz., 80c; 1 oz., \$2.40.

**MATRICARIA** (Feverfew)—**CAPENSIS**. 145,000 S. 18 in. grown outside; 3 to 5 ft. when grown in greenhouse.

### ● BALL DOUBLE WHITE IMPROVED

This strain has been carefully reselected for fully double flowers, and our own trials show it to be well over 90% true, double, imbricated blooms. Nearly all of the single and anemone types have been removed. Tr. pkt., \$1.00; ¼ oz., \$2.00; 1 oz., \$6.00; 1 oz., \$18.00.



## PERENNIALS, Continued

### MATRICARIA, Continued

**Double White, Regular.** A regular strain of double and semi-double Matricaria with some showing yellow centers.

Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$2.00; 1 oz., \$6.00.

**ALL-DOUBLE DWARF.** 8-10 in. For pots or borders.

● **Golden Nuggets.** Tr. pkt., 35c; 1/8 oz., 60c; 1/4 oz., \$2.00.

● **Snow Puffs.** Tr. pkt., 35c; 1/8 oz., 60c; 1/4 oz., \$2.00.

**MYOSOTIS** (Forget-me-not)—● **Blue Bird** (Oblongata). 31,500

S. 12 in. Standard blue for spring greenhouse flowering.

Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

**Palustris Semperflorens.** 47,500 S. 12 in. Dwarf blue. Flowers from early spring until autumn.

Tr. pkt., 40c; 1/4 oz., 90c; 1 oz., \$3.25.

**VICTORIA.** 42,000 S. A dwarf, compact strain. 6 to 8 in.

**Dark Blue** **Rose** **White** **Dwarf Mixture**

Prices above 4, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.65; 1 oz., \$4.90.

**ALPESTRIS. Blue Eyes.** 42,500 S. Early flowering bright blue with white eyes. Tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

● **Royal Blue** (Indigo Blue). 12 in. Deep rich blue.

Tr. pkt., 40c; 1/4 oz., 85c; 1 oz., \$3.00.

### ● BALL EARLY

Free flowering, spring blooming plants of this always popular bright blue flower can be had from a sowing made in December or January. This should not be confused with the other perennial types listed above.

Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.25.

**NEPETA—Mussini** (June-flowering Catnip). 52,000 S. 12 in.

Aromatic foliage and light blue flowers.

Tr. pkt., 30c; 1/4 oz., 90c; 1 oz., \$2.70.

**OENOTHERA—Youngi** (Sundrop). 350,000 S. 18 in. Large

yellow blooms. Tr. pkt., 25c; 1/4 oz., 65c; 1 oz., \$2.00.

**Missouriensis.** 12 in. Large flowered yellow.

Tr. pkt., 30c; 1/4 oz., \$1.20.

**PENTSTEMON—Avalon Mixture.** 15,000 S. 3 ft. Spikes of

fine large flowers in an extremely wide and unusual range of colors. The result of crossing 2 distinct species.

Tr. pkt., 40c; 1/8 oz., 80c; 1/4 oz., \$1.50.

**PEONY—Garden Varieties Mixture.** 125 S. Both double and

single types are represented in this assortment of colors. Blooms in 3 years from seed. 100 seeds, \$2.50.

**PHLOX—Decussata Mixture.** 2,500 S. 3 ft. Large brilliantly

colored types. Tr. pkt., 40c; 1/4 oz., 80c; 1 oz., \$2.50.

**Beltsville Beauty.** 3 ft. A greatly improved perennial Phlox. Large flowered, and a wide assortment of colors.

Tr. pkt., 85c; 1/4 oz., \$2.50; 1 oz., \$7.50.

**PHYSALIS—Francheti** (Chinese Lantern Plant). 18,000 S. 2 ft.

Giant orange-scarlet pods.

Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.50.

**PLATYCODON—GRANDIFLORUM** (Balloon Flower). 28,000

S. 24 in. Very attractive.

**White** **Shell-Pink** **Blue**

Prices above 3, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.

**MARIESI.** 16 in.

**Dwarf Blue** **Dwarf White**

Prices above 2, each: tr. pkt., 40c; 1/8 oz., 90c; 1/4 oz., \$1.60.

**POPPY—ORIENTALE** (Oriental Poppy). 140,000 S. 3 ft.

**Beauty of Livermere.** Dark oxblood-red.

Tr. pkt., 35c; 1/4 oz., \$1.25.

**Brilliant.** Fiery red. Tr. pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75.

**Princess Victoria Louise.** Beautiful light orange.

Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.75.

**Salmon Shades.** Tr. pkt., 40c; 1/8 oz., \$1.10; 1/4 oz., \$1.85.

**Mixture.** Tr. pkt., 40c; 1/4 oz., \$1.25; 1 oz., \$4.25.

**PRIMULA—VERIS.** ● **Colossea.** 33,000 S. Unusual colors.

Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

**Giant Munstead Strain.** Shades of yellow.

Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

**Polyanthus Mixture.** (Unwin's strain).

Tr. pkt., \$1.00; 1/8 oz., \$2.25; 1/4 oz., \$4.25; 1 oz., \$12.50.

### PRIMULA, Continued

● **Giant Monarch Strain.** A fine large-flowered mixture.

Tr. pkt., \$1.25; 1/8 oz., \$3.00; 1/4 oz., \$5.25; 1 oz., \$17.00.

### MISCELLANEOUS HARDY PRIMULAS

### DENTICULATA

Large heads of flowers. Colors vary from white to deep rosy lilac. Tr. pkt., \$1.00; 1/16 oz., \$2.40; 1/4 oz., \$9.00.

### Giant Crimson

### Giant Yellow

### Giant White

Above 3, each: tr. pkt., 80c; 1/16 oz., \$1.85; 1/8 oz., \$3.25.

**Blue Flowered.** Tr. pkt., \$1.00; 1/32 oz., \$2.75; 1/16 oz., \$5.25.

**Vulgaris** (True Yellow English Primrose). 19,000 S. 6 in.

Tr. pkt., 60c; 1/4 oz., \$1.75; 1 oz., \$6.50.

**Cashmeriana.** Ball-shaped heads of rich purple flowers with

yellow centers. Tr. pkt., \$1.00; 1/16 oz., \$2.40; 1/4 oz., \$9.00.

**Japanica.** Crimson, rose and pink flowers borne in whorls on 6-9 inch stems. Tr. pkt., 40c; 1/8 oz., \$1.00.

**PYRETHRUM—ROSEUM** (Painted Daisy). 18,000 S. 2 ft.

● **James Kelway.** Best deep crimson.

**Robinson's Dark Crimson.** Giant flowered, dark red.

**Rose.** Single pink flowers.

**White.**

● **Robinson's Mixture.** Large single mixture.

Prices above 5 each: tr. pkt., 60c; 1/4 oz., \$1.50; 1 oz., \$4.75.

**Double Pink** **Double Red** **Double White** **Double Yellow**

Double Pyrethrum seed does not produce 100% double flowers—the percentage is better the second season.

Prices above 4, each: tr. pkt., 50c; 1/16 oz., \$1.50; 1 oz., \$4.50.

● **Double Mixture.** The finest double Pyrethrum.

Tr. pkt., 60c; 1/8 oz., \$1.50; 1/4 oz., \$2.75; 1 oz., \$8.25.

**RUDBECKIA—Purpurea** (Echinacea). 7,000 S. 4 ft. Reddish

purple. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.50.

**SALVIA—Patens.** 3,800 S. 30 in. Deep, bright blue hardy Salvia.

Tr. pkt., 75c; 1/4 oz., \$2.00; 1 oz., \$6.00.

**SAPONARIA—Ocymoides.** 5,500 S. 9 in. Hardy rock plant.

Rose-pink flowers. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

**SCABIOSA—CAUCASICA.** 2,400 S. 30 in.

**Goldingensis.** Large flowered, fine deep lavender.

Tr. pkt., 60c; 1/4 oz., \$1.75; 1 oz., \$5.25.

**Perfecta.** Large, fringed, lilac-lavender flowers.

Tr. pkt., 35c; 1/4 oz., 80c; 1 oz., \$2.60.

● **House Mixture.** Large flowers ranging from white to deep blue.

Tr. pkt., 40c; 1/4 oz., \$1.10; 1 oz., \$3.75.

**SEDUM—Golden Carpet** (Acre). 3 in. A very nice extra dwarf

evergreen. Small, light yellow flowers produced in June. Very strong, hardy grower. Tr. pkt. (3,000 seeds or more), 50c.

**Rock Garden Blend.** Many species with various colors and forms make up this interesting mixture.

Tr. pkt. (3,000 seeds or more), 50c.

**STATICE—Caspia.** 170,000 S. 30 in. Seedlings flower second

season. Lilac. Tr. pkt., 30c; 1/4 oz., 80c; 1 oz., \$2.75.

● **Dumosa.** 19,000 S. 18 in. Dense clumps of silvery gray flowers.

Tr. pkt., 40c; 1/4 oz., \$1.00; 1 oz., \$3.00.

● **Latifolia** (Sea Lavender). 40,000 S. 30 in. Standard blue perennial Statice. Tr. pkt., 30c; 1/4 oz., 65c; 1 oz., \$2.00.

**Perezii.** 14,000 S. Flowers in large lavender heads first year from seed. Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.25.

**STOKESIA—Cyanea** (Stokes' Aster). 3,300 S. 20 in. Large

blue flowers. Tr. pkt., 35c; 1/4 oz., \$1.00.

**THALICTRUM—Dipterocarpum** (Meadow Rue). 12,000 S.

3-4 ft. Rosy purple flowers in early June.

Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.35.

**THERMOPSIS—Caroliniana.** 6,500 S. 3-5 ft. Long panicles of yellow pea-shaped flowers.

Tr. pkt., 30c; 1/4 oz., 75c; 1 oz., \$2.35.

**TRITOMA** (Red Hot Poker). 20,000 S. 3 to 4 ft.

● **Pfitzer's Red.** Large brilliant red.

**Mirabilis.** Yellow and orange shades.

Prices above 2, each: tr. pkt., 30c; 1/4 oz., 60c; 1 oz., \$2.00.

## PERENNIALS, Continued

**TROLLIUS** (Globe Flower). 8,000 S. Soak seed in hot water 30 minutes before sowing.

**Ledebouri, Orange.** The standard variety. 2 ft. tall.

Tr. pkt., 60c; 1/16 oz., \$1.25; 1/8 oz., \$2.25.

**Mixture.** Tr. pkt., 40c; 1/8 oz., \$1.50; 1/4 oz., \$2.70.

**VERONICA—Spicata, Dwarf Blue Shades** (Speedwell). 250,000 S. 16 in. Tr. pkt., 35c; 1/4 oz., 90c; 1 oz., \$2.70.

**VIOLA—CORNUTA.** 24,000 S. **Apricot.** 8 in. Prefer Chantreyland. Tr. pkt., 55c; 1/8 oz., \$1.15; 1/4 oz., \$2.10; 1 oz., \$6.50.

● **Arkwright Ruby.** Maroon with dark center. Bright color. Tr. pkt., 60c; 1/8 oz., \$1.60; 1/4 oz., \$2.90; 1 oz., \$9.00.

● **Blue Perfection.** Large flowered clear medium blue. Tr. pkt., 60c; 1/8 oz., \$1.20; 1/4 oz., \$2.25; 1 oz., \$6.50.

● **Chantreyland.** Extra large flowered true apricot. Tr. pkt., 60c; 1/8 oz., \$1.15; 1/4 oz., \$2.20; 1 oz., \$6.50.

**Firmament.** Free blooming, clear sky-blue.

Tr. pkt., 60c; 1/16 oz., \$1.15; 1/8 oz., \$2.20.

**Jersey Gem.** Deep orchid; large flowered and attractive.

Tr. pkt., 60c; 1/16 oz., \$1.15; 1/8 oz., \$2.25.

● **Lutea Splendens.** Clear golden yellow.

Tr. pkt., 60c; 1/4 oz., \$1.60; 1 oz., \$5.25.

**Papilio.** Blue and white combinations. Extra dwarf and free-flowering. Tr. pkt., 40c; 1/4 oz., \$1.25; 1 oz., \$4.25.

**Puck.** Yellow and purple.

Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

## VIOLAS, Continued

● **White Perfection.** Small pure white.

Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

**Scottish Mixture.** Mostly solid colors in shades of white, yellow, blue and purple. Larger blooms than Large Flowered Mixture. Tr. pkt., 40c; 1/16 oz., \$1.15; 1/4 oz., \$3.35; 1 oz., \$10.00.

● **Large-Flowered Mixture.** Mixture of large-flowered varieties. Tr. pkt., 40c; 1/4 oz., \$1.35; 1 oz., \$4.25.

## "JUMP-UPS"

43,000 S. These small, but free flowering Violas make excellent bedding and rock garden plants, blooming continuously from early spring to late fall.

**Black Imp** (Nigra). Small, velvety, coral-black flowers.

● **Blue Elf** (Improved Johnny-Jump-Up). Three-colored blooms of deep violet, light blue and gold are freely produced on low-growing plants.

● **Helen Mount.** A richly colored combination of violet, lavender and canary-yellow. Very free flowering with narrow bushy foliage.

**King Henry.** Rich violet-blue with lavender center; yellow eye.

Prices above 4, each:

Tr. pkt., 60c; 1/8 oz., \$1.35; 1/4 oz., \$2.50; 1 oz., \$7.50.

**ODORATA.** The popular fragrant "English Violet."

**Semperflorens.** Deep blue. Tr. pkt., 40c; 1/4 oz., \$1.40.

**YUCCA—Hardy Varieties Mixture.** 1,800 S. Striking plants of exotic appearance. Tr. pkt., 35c; 1/4 oz., \$1.00; 1 oz., \$3.00.

## CATALOG No. 75—SUMMER 1957—BUSINESS TERMS

### DISCOUNTS ON SEED ORDERS. Cash or C.O.D.

**Discount!** When cash is enclosed or on C.O.D.'s: under \$5.00, net; \$5.00 to \$25.00, 5%; \$25.00 and over, 8%. **Bulbs and plants, 2%.**

**On Charge Seed Orders!** If paid within 10 days from date of invoice: under \$5.00, net; \$5.00 to \$50.00, 2%; \$50.00 to \$100.00, 5%; \$100.00 and over, 8%. **Bulbs and plants, 2% 10 days.**

**NO CASH DISCOUNT** on Plant Containers and other Supplies. These items cannot be sent C.O.D.

If this is your first order, it should be signed with some **individual's name** in writing. Payment should accompany all orders unless credit has been established. C.O.D. shipments 50% in advance.

**All prices in this catalog subject to change without notice.**

**All Seed Sent Prepaid** to U. S., its possessions, or Canada, except on orders weighing over 2 ounces where customer requests first class mail, air mail or other special carrier, extra shipping costs will be charged.

**IMPORTANT.** Make checks or money orders payable to **Geo. J. Ball, Inc., WEST Chicago, Illinois.** Not responsible for currency sent in the mail.

**Business Hours** (holidays excepted) are 8 to 12 and 1 to 5 Monday through Friday. Our phone number is West Chicago 299.

**THIS CATALOG IS FOR COMMERCIAL GROWERS ONLY.**

**Shortages.** All items are offered subject to crop failures or shortages.

**LIMITATION OF WARRANTY.** Geo. J. Ball, Inc., warrants to the extent of the purchase price that seeds, plants, or bulbs sold are as described on the container within recognized tolerances. Seller gives no other or further warranty, express or implied.

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## CONTAINERS

**JIFFY-POTS** ..Cover 3



USE

## JIFFY-POTS TO INCREASE YOUR PROFITS

### CHECK THESE POINTS:

- Faster Growth**—steady and unchecked in this ideal container.
- Heavier Growth**—thicker stems, more dense foliage, better flowers.
- Time Saving**—faster growth means later propagation.
- Space Saving**—start new crop in Jiffies while old one cuts out.
- No-Check Transplanting**—uninterrupted growth.
- Labor Saving**—no pots to wash, sterilize, store or transport for re-use.
- Meets Emergencies**—hold plants in Jiffies until bench space clears.
- Smart Merchandising**—the “do it yourself” way for bedding plant customers.



This remarkable molded pot is constructed from long-fiber peat and wood fiber with soluble fertilizer added. The roots grow right through the walls.

### MUMS

Rooted cuttings can be grown pot to pot in Jiffy-Pots for up to three weeks in a fraction of the final space. Then the Jiffy-Potted Mums are benched, pot and all, at the usual spacing. Some year round Mum growers have gotten more crops per year by this method. Many others, including our own West Chicago range, keep Jiffies on hand for emergencies when cuttings arrive before a delayed bench is cut out.

### POINSETTIAS

Fast growth in Jiffy-Pots enables later propagation and extends the cutting season—makes for a faster crop all around. Plants hold lower foliage well, keep dark green color better.

### SNAPS

In year round Snap programs Jiffy-Pots enable growers to schedule three full crops a year. Seedlings grow just as fast in Jiffy-Pots as if they were direct benched, and there is **no check** at any time—they are benched pot and all after 4 to 6 weeks in the Jiffies. The 4 to 6 weeks is saved for a flowering, income-producing crop.

### ASTERS

Growers who have replaced other containers with Jiffy-Pots in their Aster program report **greatly increased growth**. Plants grow faster and heavier, suffer no check at benching and produce premium flowers.

### OTHER PLANTS

**Carnations:** Great labor savings over using clay pots have swung hundreds of Carnation growers to Jiffy-Pots.

**Geraniums:** Growth is so rapid that two weeks can be cut from midseason and late propagations; even more from early fall schedules.

**Roses:** Several florists use Jiffies for the under stock in Rose propagations, say they would never return to the old methods.

**Bedding Plants:** Jiffy-Potted bedding plants are right in line with the “do it yourself” trend—customers plant pot and all.

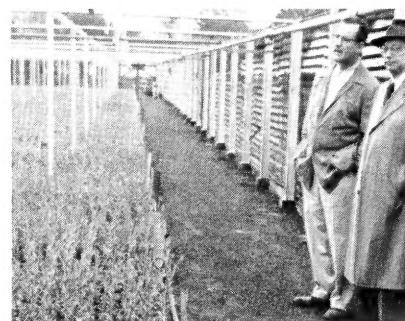
#### PRICES

2 1/4-Inch Available Immediately		3-Inch Available 60-90 Days	
Quantity	Per 1000	Quantity	Per 1000
3,000 to 18,000 (3,000, \$21.75) .....	\$7.25	1,500 to 9,000 (1,500, \$19.88) ....	\$13.25
21,000 to 72,000 .....	6.75	10,500 to 49,500 .....	12.25
75,000 up .....	6.50	51,000 up .....	11.25
Sold in cases of 3,000. Minimum order 3,000, 35 lbs. per case.		Sold in cases of 1,500. Minimum order 1,500, 35 lbs. per case.	

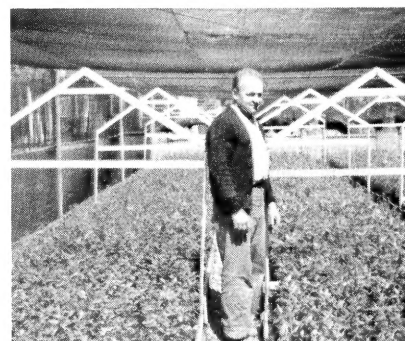
F.O.B. our warehouse in West Chicago, Ill.; Bayonne, N. J.; Allentown, Pa.; Houston, Tex.; Santa Paula, Calif.; San Francisco, Calif.; and Portland, Ore.

Jiffy-Pots can “save” Mum cuttings when bench space is tight. Hold cuttings three weeks in Jiffies with no slowdown of growth. Breaks are as good as direct benched cuttings.

Poinsettia in 2 1/4-inch Jiffy-Pot ready for panning at Morgan's Flowers, Elgin, Illinois. Roots popped through near bottom where “Jiffy” was plunged in gravel, will penetrate everywhere when pot is in moist soil. Growth stocky, no leaf drop.

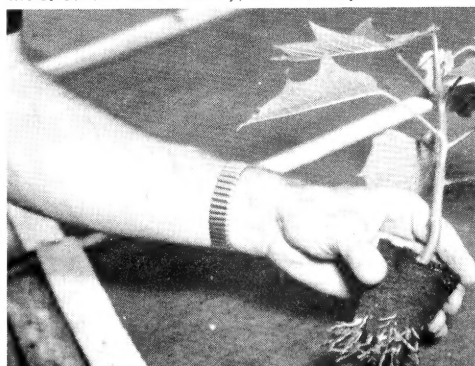


Jiffy-Potted Carnations in the Joseph H. Hill range, Richmond, Indiana. Jiffy-Pots pay for themselves here just by saving the labor of storing pots for re-use. Dick Mikesell of Hills, left, and Monty Wright of Geo. J. Ball, Inc., look over Carnations in 3-inch Jiffy-Pots ready for benching.



Willard Hartzell, Dayton, Ohio grower, in his Saran Cloth house of Snaps. Schedule: Sow February 14; Jiffy-Pot March 10 in 2 1/4-inch Jiffies; bench late April 4 x 4 in.; grow single stem; cut out in time to bench cloth house Mums.

Richard Hupfel, of Hupfel Farms, Stuart, Florida, uses 3-inch Jiffy-Pots for Ball Asters. These beds have been planted six weeks. Seed was direct sown in Jiffy-Pots 4 1/2 weeks before field planting time. Note heavy, uniform growth.







Cameliard; Summer Skies; Black Knight; Guinevere; V. & R. Delphinium

## OUR "6 BEST" GIANT PACIFICS

<b>Galahad</b>	<b>Summer Skies</b>	<b>Black Knight</b>
<b>Blue Bird</b>	<b>King Arthur</b>	<b>Guinevere</b>

**COLLECTIONS:**  
**Originator's Seed.** 1 tr. pkt. each of 6 Best, \$10.80.  
**Regular Seed.** 1 tr. pkt. each of 6 Best, \$8.00.

## Florists' Delphinium

10,000 seeds per oz. Delphinium should be a substantial part of almost every grower's program. They're invaluable cut flowers and you'll find a ready demand for plants. The remarkable Giant Pacific Hybrids are "tops" almost everywhere.

### GIANT PACIFIC STRAINS Court Series

- **Black Knight.** Deep velvety blue. The darkest of all.
- **Blue Bird.** The clearest of medium blues; white bees.
- **Blue Jay.** A brilliant true medium blue with dark bee.
- **Cameliard.** Lavender and rose with white bee.
- **Galahad.** The finest clear white Delphinium.
- **Guinevere.** Light pinkish lavender; white bee.
- **King Arthur.** Royal violet; white bee. Exceptional size.
- **Summer Skies.** Light blue with contrasting white bee.
- **6 Best Mixture.** Formula mixture of the "6 Best" varieties.

**Round Table.** Contains all above plus many new colors.

#### Prices of above:

**Originator's Seed** (Vetterle & Reinelt). An excellent strain of the Giant Pacifics kept uniform and vigorous by the originator. ½ tr. pkt., \$1.25; tr. pkt., \$2.00; ¼ oz., \$3.00; ½ oz., \$5.50; 1 oz., \$20.00.

**Regular Seed.** A satisfactory strain one generation removed from originator's seed. Grown by a reliable seed producer. Tr. pkt., \$1.50; ¼ oz., \$2.50; ½ oz., \$4.50; 1 oz., \$15.50.

#### ASTOLAT

Pale blush shades with several darker tones including a few raspberry-rose. Dark bees. ½ tr. pkt., \$1.25; tr. pkt., \$2.00; ¼ oz., \$3.00; ½ oz., \$5.50; 1 oz., \$20.00.

## Giant Pacific Regular Strain

**Clear White.** A fine clear white, large flowered.  
**Blue Shades.** Mixture of light, medium and dark blue.  
**Lavender Pastel Shades.** Lavender combinations with dark bees.  
**Mixture.** All colors in this fine type.  
**Prices above 4, each:** tr. pkt., \$1.00; ¼ oz., \$2.25; ½ oz., \$4.00; 1 oz., \$13.50.

## OTHER VARIETIES

- **Belladonna Imp.** (Cliveden Beauty). A carefully reselected strain of this popular light blue. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Belladonna.** Light blue; field grown seed. Tr. pkt., 35c; ¼ oz., 70c; 1 oz., \$2.35; 4 ozs., \$7.85.
- **Bellamosum Improved.** A reselected strain of this standard deep blue. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.
- **Blackmore and Langdon Strain.** Shades of blue with contrasting bees. A fine free-flowering hybrid strain. Tr. pkt., 40c; ¼ oz., \$1.25; 1 oz., \$3.75; 4 ozs., \$12.50.

- **Lamartine.** Deep, bright marine-blue with white eye. Tr. pkt., 55c; ¼ oz., \$1.50; 1 oz., \$5.00.
- **Sapphire.** Large flowered bright blue with small golden bee. Petals have a brilliant, glossy sheen. Slightly lighter than Bellamosum. Tr. pkt., 75c; ¼ oz., \$2.00; 1 oz., \$6.00.
- **Wrexham or Hollyhock Strain.** Extra large, tapering spikes. Tr. pkt., 55c; ¼ oz., \$1.75; 1 oz., \$6.00.
- **Gold Medal Mixture.** Tr. pkt., 35c; ¼ oz., \$1.00; 1 oz., \$3.00.
- **Cardinale.** 25,000 S. Bright scarlet. Tr. pkt., 40c; ¼ oz., 80c; 1 oz., \$2.50.
- **Delphinium Chinensis.** See General Catalog.

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